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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Cons. 6 to 5-7

G.O. No. 1888 Press Mis.

63-64

Dated 6—10—1857

Not to be folded or roughly handled

No. 63. Read the following letter from Colonel C. E. FABER, Chief Engineer; to H. FORBES, Esq., Acting Secretary to Government, dated 29th September 1857, No. 4051.

SIR,

1. With reference to Extract from my Proceedings No. 3435, of the 3rd, I have the honor to forward copy of a letter No. 565 of the 15th Instant from the District Engineer Godavery Division, together with a Plan showing the extent of the injury done to the Aqueduct lately constructed across the river Yerra Calwa in the Masulipatam District.

2. It appears fram Captain Rundall's account, that the work has been very skilfully and carefully built, and that proper precautions were taken before admitting the water over it, the imperfect setting of the chunam in the portion of the masonry destroyed, being assigned as the cause of the accident.

3. The Plan proposed for repairing the work, on ordinary estimate at the close of the cultivating season, by throwing an auxiliary Arch, corresponding to the thickness of the side wall of the Aqueduct, over the portion of the main arch which has been destroyed, was successfully pursued, when a similar injury occurred to the Nagarum Aqueduct.

4. The temporary expedient adopted, and for which credit is due to Captain Rundall for repairing the Aqueduct by an Earthen embankment, as shown in the Plan, has been the means of securing the whole of the crops dependant on that work for a supply of water.

Letter from Captain F. H. RUNDALL, District Engineer Godavery Division; to Colonel C. E. FABER, Chief Engineer, dated Camp at Dowlaishwarum, 15th September 1857, No. 565.

SIR,

With reference to Extract from your Proceedings, dated 3rd Instant, I have the honor to forward a Plan, shewing exactly the injury sustained by the Yerra Calwa Aqueduct, from which you will perceive that it is a small portion of the North side wall which has given way, taking with it a little of the face of the arch on which it rested. The only reason that I can give for the cause of the accident is, that the Chunam could not have set so well in that particular part of the wall as in the remainder, but the walls were allowed to dry nearly a month before the water was let over the work, which is more than ample time for the Rajahmundry sluice to set in a wall of moderate thickness. The Officer in charge of the work was Mr. H. B. Smith, Executive Engineer, since removed to another District, and the Overseer was Serjeant Scully, also lately removed. The whole work was built with great care, and as before reported by me, was as good a specimen of Masonry as there is in the country. The arches particularly struck Colonel Arthur Cotton, who inspected the work, as being constructed with more than ordinary care. The requisite repairs can be carried out after the cultivating season is over under ordinary estimate in doing which, I intend to throw an auxiliary arch, the whole width of the side wall over the present fractured portion of the main arch, and thus relieve the latter from the weight of the superstructure. This method was pursued in the Nagguram Aqueduct when an arch was similarly injured. The water way was re-admitted on the 31st August, and is now flowing 4'-10" over the work, the section at the earthen bund being about 14½ square yards, and the velocity 3000 yards per hour will give 43,500 cubic yards per hour available for the cultivation. But for this timely supply, the whole of the crops must have perished. The rains having almost wholly failed in the Delta this year. I have lately been making an inspection of the Irrigation in the various talooks, and it is allowed on all hands by the Ryots that but for the supply of the Annicut water there would have inevitably been a scarcity this year.

(A true Copy.)

(Signed) C. E. FABER, Colonel,
Chief Engineer.

Fort Saint George, Public Works Consultation of 6th October 1857.

No. 61. ORDER THEREON, No. 1888; dated 6th October 1857.

Ordered that the foregoing letter be recorded.

(Signed) H. FORBES,
Acting Secretary to Government.

Central Office of P.W.D. 3

No. 4051. Fort St George 29th September 1857.

From

The Chief Engineer,

To

The Secretary to Government,

P.W. Department.

"Revenue"
Irrigation

Sir.

1. With reference to Extract from my Proceedings No. 3435 of the 3d, I have the honor to forward copy of a letter No. 565 of the 15 Instant from the District Engineer Godavery Division together with a Plan, showing the extent of the injury done to the Aqueduct lately constructed across the river Gena Calwa in the Masulipatam District.

2/ Enclosures
1 Letter
1 Plan

2. It appears from Captain Rundall's account, that the work has been very skilfully and carefully built, and that proper precautions were taken before admitting the water over it, the imperfect setting of the Chunam in the portion of the Masonry destroyed, being assigned as the cause of the accident.

3. The Plan proposed for repairing the work, on ordinary Estimate at the close of the cultivating season, by throwing an Auxiliary Arch, corresponding to the thickness of the side wall of the Aqueduct, over the portion of the main arch

Dist. Engrs. Office Jy Dr.
No. 565 15th September 1857.

From
Captain T. H. Rundall
District Engineer Godavery Dr.

To
Colonel C. E. Faber
Chief Engineer D.P.W.
Fort Saint George

Sir,

With reference to Extract from your Proceedings dated 3rd Instant, I have the honor to forward a plan, shewing exactly the injury sustained by the Ezra Calwak aqueduct, from which you will perceive that it is a small portion of the North side wall which has given way. taking with it a little of the face of the arch on which it rested. The only reason that I can give for the cause of the accident is, that the Chunam could not have set so well in that particular part of the wall as in the remainder. but the walls were allowed to dry nearly a month before the water was let over the work, which is more

than

which has been destroyed, was successfully pursued, when a similar injury occurred to the Nagarum Aqueduct &c. The temporary expedient adopted, and for which credit is due to Captains Rundall of repairing the Aqueduct by an Earthen Embankment across the Drain, has been the means of securing the whole of the crops depending on that work for a supply of water.

I have the Honor to be
Sir
Your most Obdt. Servant
Illegible Colonel
Chief Engineer

Central Office
Fort St. George
15th September 1857

than ample time for the Rajahmundry sluice to set in a wall of moderate thickness.
The Officer in charge of the work was Mr. A. B. Smith, Executive Engineer, since removed to another District, and the Overseer was Sergeant Tenby, also lately removed.
The whole work was built with great care, and as before reported by me, was as good a specimen of Masonry as there is in the Country. The arches particularly struck Colonel Arthur Cotton, who inspected the work, as being constructed with more than ordinary care. The requisite repairs can be carried out after the Inundating Season is over under Ordinary Estimate. In doing which, I intend to throw an auxiliary arch the whole width of the side wall over the present fractured portion of the Main arch, and thus relieve the latter from the weight of the superstructure. The method was pursued in the Nagavaram Anicut when an arch was similarly injured. The water way was readmitted on the 31st August, and is now flowing 4.10" over the work; the section at the causeway

Sand

bund being about 1½ square yards, and the velocity 3000 yards per hour will give 43500 Cubic yards per hour available for the cultivation. But for this timely supply the whole of the Crops must have perished. The rains having almost wholly failed in the Delta this year. I have lately been making an inspection of the Irrigation in the various Talooks, and it is allowed on all hands by the Ryots that but for the supply of the Anicut water there would have inevitably been a scarcity this year.-

I have the honor to be
Sir
Your Most Obedient Servant
(Signed) H. Rundall Capt.
District Engineer
Godavery Division

Dist. Engrs. Office 4th Divn.
Camp at Dowlaiserum
15th September 1857

A true Copy
H. Rundall Colonel
Chief Engineer

No.

Enclosure in a letter from
the Chief Engineer
to the Secretary to Govt.
P.W.D.

Dated 29 } September
Rec'd } 1851

30 Aug 51

Copy of a letter from
the Dy Engineer Godavery Dt
forwarding Plan showing the
injury sustained by the
Yerra Calwa Aqueduct

Coms 16th Septr/37 R. 7 8 38

P W— 1837 Dept. 11
Coms. 6th October.
No. 1949

From The Chief Engineer
To The Secretary to Government
P.W. Department

Dated 29th September 1837.
Read 1st October
Transmitted

No. 4031.

Encls. 2.

Forwards a Plan shewing the extent of injury done to the Aqueduct lately constructed across the river Gernalcoma in the Masulipatam District as reported to Government in Extract from Proceedings No. 3435 of the 3d September 1837.—

No. 1888
Recorded
Fort St. George 6th Octr. 1837

No. 6364.

C 3 Octr. 26th