

D.W.

57
Messrs. Morrey & Co. in their letter dated June 29th 1886 to E.E. Gannett state that their knowledge was for driving the piles of Sigsbee's Pat. through sand only & if hard soil is met with they will claim extra payment. They also suggest that it will facilitate the screwing down of the pile in hard ground if the diameter of the screw be reduced which they state can be safely done.

S.E.I. refuses to sanction the reduction of diameter ~~with~~ or his own responsibility & certainly not by the means proposed by the contractor agent i.e. "hacking off" portion of the thread with a hammer and asks for orders.

It appears from the correspondence that hard ground has only been met with in the case of one pile at present & the pile was shortened as reported separately by E.E. and the Contractor wants to be allowed to reduce the diameter of the screw in case of hard ground being met with in future.

The sanctioned depth to which the piles are to be sunk is so little that I do not think it would be safe either to reduce the depth or diminish the diameter of the screw.

In para 10 of the contract agreement it is stated that the contractor shall be paid extra for screwing pile through stiff clay or rock and I think it would be better to insist on the piles being screwed down to full depth and of proper diameter and pay extra rate rather than endanger the safety of the pier.

Law
30/7/86

MS
29.7.86

(5)

note by DW.

No 817.

Rushikulya D^r Office
Camp Russelkonda, 9th July 1886

From,

The Executive Engineer
Rushikulya Division

To,

R. D. Frier Esq^r
Contractors Engineer,
Gopalpore Pier.

Sir,

I have the honor to request that before putting down a pile in future that you will drive down the pricker to ascertain the probable nature of the soil and amount of resistance to be met with. I also request that you will use a definite weight for the purpose viz: a sleeper. I also request that you will note the height through which the latter had to be dropped to drive down pricker to the requisite depth which will be the depth the pile will have to go. Messrs Massey & Co. will probably put in a claim for extra work owing to stiff soil in lieu of sand being met with and it is necessary that these experiments be on record with a view to determining any such claim. I am sending a copy of this to Serjeant-Loye with instructions to be present and to make a Note in each case of the height through which the sleeper had to be dropped as

well as number of blows required -
I have &c
(Sd) J. Hannan,
Executive Engineer.

N^o 818

Copy sent to Sergeant Joyce who will note carefully the height through which sleeper had to be dropped and also the number of blows given. His observation will be recorded as follows for each pile -
Commenced with a - ft drop finished with - ft drop. number of blows - and any short remark which may be necessary can be added. The information must be given on the back of the weekly reports submitted.

(Sd) J. Hannan
Executive Eng^r

(True Copy)

C. Swalch

Sup^r Eng^r 1st Circle.

N^o 819. Rushikulya D^r Office
Camp Russelkonda, 9th July 1886

From,

The Executive Engineer
Rushikulya Division.

To,

Mess^{rs} Massey & Co
Madras.

Gentlemen,

I am in receipt of your letter dated 29th ultimo.

1. I do not propose to use dynamite unless to remove some detached object such as a boulder.
2. I will refer your suggestion to reduce diameter of screw when hard ground is met with to the Superintending Engineer for orders.
3. It was to obviate your having to screw down piles twice over that I suggested a prick being used before-hand.
4. Another $\frac{1}{2}$ ton crane will not be required for the pier in lieu of the one which I have taken temporarily for the Rushikulya works.
5. I will have another bill prepared for payment for work done upto date.

I have &c &c

(Sd) J. Hannan,
Executive Engineer.

(True Copy)

C. Swalch

Sup^r Eng^r 1st Circle.

Massy & Co

Madras, June 29th 1886

J. Haman Esq^r

Executive Engineer Ruzhikulya

Dear Sir,

Gopalpore Pier. We learn from our Engineer in charge that the first pile of 15th tier came upon rock or hard ground and that great difficulty and serious delay has been caused in consequence your suggestions are we believe that we should run down a prickler before each pile and in instances of hard ground use dynamite, we are quite willing to carry out these instructions under clause 10 of the Contract, due provision being made for payment of extra work, but we submit this is no part of our contract nor are we supposed to screw down piles twice over, our tender was for screwing once down in sand only, borings or tests were previously made by your Department and we were instructed to prepare for a sand bottom only. Should difficulties again crossing, we must ask you to give this question your attention and for the present difficulties allow us a fair

Encls 3

P.W. 5874/86

compensation.

We trust that you have sanctioned our Engineer reducing the diameter of the piles, it will facilitate work in hard ground, they can be reduced with perfect safety and increased again when sand is met with, the present labor screwing is more than necessary for the stability of the Pier and retard progress increasing cost of erection needlessly, it is the usual practice when hard ground is met with.

We also learn that you have taken over the $\frac{1}{2}$ ton Travelling Crane for your work at Rushikulya, are we to understand from this that we must supply another crane for the Pier which you will pay us for on arrival please advise.

We are dear Sir
yours faithfully,
(Sd) Massey & Co

Can you make in a further remittance on account Pier work.

(True Copy)

(Sd) J. Hamman
Esc Engineer.

(True Copy).

C. P. Thakur

Sup^r Eng^r 1st Circle.

Encl 2
P.W. 5824/86

Encl 3

1. Copy of letter d/

29/6/86 from

Mr. Massey & Co

1 Copy of this Office

repl. No 819 d/19/7/86

1 Copy of this Office letter

No 817 d/9-7-86 to R.D.

Dicer Engineer

3

Rushikulya Div Office
No 816
Camp Russelkonda, 9 July/86

From,

The Executive Engineer

Rushikulya Division

To,

The Sup^r Engineer 1st Circle.

Sir,

I have the honor to forward for orders correspondence between myself and Messrs Massey regarding the Gopalpur Pier. Reducing the diameter of the screw would doubtless facilitate the screwing down of the piles in stiff ground but I do not know whether you will approve of the process which the contractor's Engineer proposes to adopt to reduce the diameter which is to knock segments or sectors off with a hammer. As regards the hardness of the soil being met with this is a difficult matter to settle. I am now sending orders (copies enclosed) to the contractor's Eng^r to drive down an Iron pricker which I have given him in advance to ascertain the nature of the soil and I think that when he cannot drive down this pricker ($1\frac{1}{2}$ " rod) to the full depth

the pile has to be screwed down,
it may be assumed that the soil
is hard from say 1 foot above point
of pricker. Again when hard soil
is met it would not I imagine be
necessary to screw down piles to the
same depth as through sand. For
instance when the plan shews that
piles should be screwed through 10 ft
of sand 8 ft would I imagine be suffi-
-cient if screw went into clay.

I have &c &c
(Sd) J. Hainan
Executive Eng^r Ruski-
-kulya Division.

(True Copy)

C. Swahl

Sup^r Engineer 1st Circle

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-cient if screw went into clay.

I have &c &c
(Sd) J. Hainan
Executive Eng^r Ruski-
-kulya Division.

(True Copy)

Sup^r Engineer 1st Circle

No.

FROM,

THE SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER

P. W. Department
FOR IRRIGATION

DOWLAISHWARAM, 21st July 1886.

SIR,

Gopalpur Pier

X
received on 20th

Encl 1
P.W. 5824/86

I have the honor to forward herewith copies of letter No. 816-9th Instant from the Executive Engineer Rushikulpe Division and its enclosures.

2. I have already, on 1st Instant and again on 17th, informed the Executive Engineer that alteration in diameter of the screws is not to be permitted without your sanction, and I do not recommend for your approval that alteration especially if carried out in the way which it appears the Contractor's Agent proposes.

See the Ex Eng's letter

3. Were the piles merely to support a superstructure it would of course be easy to decide by loading when they were screwed down enough, but as it is, the proper test would appear to be

a pull or push of certain intensity applied alternately on all sides of the pile - and I do not see how to give definite instructions which will meet the cases of "hard ground" being met with above the depth to which by agreement the piles should be screwed down; I therefore have the honor to ask for orders -

I have the honor to be,
Sir,
your most obedient Lt

C. J. Swales

Sup^t Engineer 1st Circle.

No 2613C. 128.7.86
 " 2466C. 13.7.86
 " 2212C. 18.6.86
 " 2202C. 17.6.86
 " 2083C. 7.6.86
 " 1993C. 31.5.86
 No 1366W. 31.5.86
 G.6 2368W. 24.9.84
 No 420. 21.4.86
 " 1003C. 12.3.86
 No 2730. 27.3.11.81
 No 490. 24.4.86
 " 132. 15.4.86
 " 520. 13.4.86
 15730C. 19.4.86
 No 80826W. 26.3.86
 No 740C. 23.2.86
 " 824C. 26.2.86
 G.6. 574W. 26.2.86
 No 2226. 27.1.86
 " 108W. 12.1.86
 G.6. 2509W. 10.10.84
 " 2007W. 20.8.84
 " 695W. 28.8.84
 " 752W. 22.3.82
 " 757W. 22.3.82
 No 1427C. 28.8.85
 G.6 3099W. 30.12.83
 No 82W. 11.1.86
 " 2645W. 7.11.83
 G.6. 2040W. 20.8.84
 " 261W. 23.1.83
 " 3233W. 14.11.83
 " 2466W. 4.10.84
 " 3069W. 13.12.84
 No 1257C. 11.7.84
 " 1205C. 3.7.84
 " 1109W. 18.6.84
 G.6. 1424W. 6.6.84
 " 1263W. 19.5.84
 " 1230W. 14.5.84
 " 880W. 31.3.84
 G.6. 1879. 26.3.80
 " 1869. 25.3.80
 " 389. 8.2.71
 " 822. 23.4.61
 " 1343. 13.6.62
 " 2244. 19.9.62
 " 2619. 21.12.60

N^o 2463 C of 13.7.86
- 2239 C - 22.6.86
- 1994 C - 31.5.86

W.C. 5824
(57)

N^o 2712 C of 7-8-86
Memo

FROM,
THE SUPERINTENDING ENGINEER
FIRST CIRCLE.

As the sanctioned
depth to which the
piles are to be sunk
is so little it would
not be safe either
to reduce that depth
or to diminish the diameter
of the screw. It would
be better to insist
on the piles being
screwed down to the full
depth, and with the full
diameter; although
the Contractor might become
entitled to something
extra under clause
10 of his agreement.
Every precaution should
be taken against
endangering the
safety of the pier -

TO,
THE CHIEF ENGINEER
FOR IRRIGATION.

DATED 21
DESPATCHED 22 } July 1886
RECEIVED 28

No. 2997 G.C.

ENCLOSURES. 3

N^o 2712 C of 7-8-86

Gopalpur Pier -
Asks for Orders
regarding the alteration
in the diameter of
Screws in the hard
ground of -

Ref. 152/730/7/86
S.E. I Circle
Q. 30.7.86

Entered in R.R. 10/8