(1) பக்கங்களின் எண்ணிக்கை 50

(2) புதுக்கித் திருப்பிய நாள் 9/89

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

33

தமிழ்நாடு அரசு

PWD துறை

அரசாணை எண். / மு. கோப்புத் தாள் எண். 1295

அச்சகம் / பலவகை

நாள் : 15 5 1889 ~~198~~.

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

25 Sheets

ஆவண, கா-1—18,006—15-6-87.

15TH MAY 1889, No. 1295 W., PUBLIC WORKS.

1295

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From Captain H. A. STREET, H.M.'s I.M., Presidency Port officer, to the Chief Secretary to Government, Marine Department, dated Madras, 13th April 1889, No. G.-163.

In the early part of February last the Port officer at Gopálpur reported to me that by the order of the Executive Engineer, Ganjam division, the two 3-ton cranes supplied by Messrs. Massey and Co. for the pier at that port had been marked " not to lift more than 2 tons."

2. I accordingly addressed the Executive Engineer on the subject, and from his reply, forwarded in original, to be returned, and the information contained in the enclosures attached to it, I gather that the cranes were passed, though according to the view of the Public Works Department officials they " are not up to working 3-ton weight as a common practice."

3. Messrs. Massey and Co. were required to provide two 3-ton cranes, and, according to my view, this meant cranes up to working 3 tons as a common practice. If the cranes in question were not up to this, I submit that they should not have been accepted. As the case stands at present, the Port officer at Gopálpur, should he have occasion to lift a 3-ton weight, would not feel justified in using either of the cranes, and the port has had to pay for cranes which are not according to specification.

4. A definite ruling as to the excess weight required to render, say, a 3-ton crane capable of being worked up to that weight as a common practice seems necessary.

Transferred to the Public Works Department.

(By order.)

(Signed) W. S. MEYER,
Assistant Secretary.

29th April 1889.

Note by the Acting Chief Engineer, General Buildings and Roads Branch.

From the copies of letters furnished by the Presidency Port officer it would appear that the cranes supplied by Messrs. Massey and Co. and paid for by this department have been found capable of lifting 3 tons, and only showed signs of giving in to the strain when over $3\frac{1}{2}$ tons were applied. Such being the case, there appears no reason why the Executive Engineer should have had them marked " not to lift more than 2 tons." If a crane is used for lifting the weight it is intended for, it must be remembered that the duration of the strains caused thereby are generally very short, and as long as the limits of elasticity of the material forming the component parts are not reached, no lesion can take place, as the intervals that occur between successive workings of the crane allow the material by virtue of its resilient powers to regain its original form.

2. If the cranes in question have lifted 3½ tons without fracture, I think they may be safely worked in ordinary practice to 3 tons, provided that men accustomed to such work are employed.

7th May 1889. (Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Chief Engineer, P.W.D.

ORDER—dated 15th May 1889, No. 1295 W., Public Works.

The above note by the Chief Engineer, Public Works Department, is communicated to the Presidency Port officer for information through the Marine Department.

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Lieut.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.

To the Marine Department.
" Superintending Engineer, I Circle.

Exd. J. Henricus.
Spare Copies

(1295

H

2

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1889} Madras.

PUBLIC WORKS.

Dated May, 15th.

Recd Encs

G.O., 15th May 1889, No. 1295 W.

MAY.

Cranes

Note by the Chief Engineer, Public Works Department, relating to the — supplied by Messrs. Massey and Co. for Gopálpur, communicated to the Presidency Port officer through the Marine Department.

Cno 378

No. $\frac{G}{163}$

PRESIDENCY PORT OFFICE,
Madras, 13 April 1889.

Heading.
Cranes

1P
1295

FROM
THE PRESIDENCY PORT OFFICER,
MADRAS,

TO
THE CHIEF SECRETARY TO GOVERNMENT,
MARINE DEPARTMENT,
FORT ST. GEORGE.

SIR,

In the early part of February last, the Port Officer at Gopalpur reported to me, that by the order of the Executive Engineer, Ganjam Division, the two 3 ton cranes supplied by Messrs Massey & Co for the pier at that Port had been marked "not to lift more than 2 tons."

[illegible] the estimate
passed —
G.O. [illegible]
1450 W.

2. I accordingly addressed the Executive Engineer on the subject, and from his reply, forwarded in original to be returned, and the information contained

3

contained in the enclosures attached to it, I gather that the cranes were passed, though according to the view of the Public Works Department officials they "are not up to working three tons weight as a common practice".

3. Messrs Massey & Co. were required to provide two three ton cranes, and according to my view, this meant cranes up to working three tons as a common practice. If the cranes in question were not up to this, I submit, that they should not have been accepted. As the case stands at present, the Port Officer at Gopalpur, should he have occasion to lift a 3 ton weight, would not feel justified in using either of the cranes, and the Port has had to pay for cranes which are not according to specification.

4. A definite ruling as to the excess weight required to render – say a 3 ton crane capable of being worked up to that weight as a common practice seems necessary.

I have the honor to be,
Sir,
Your Obedient Servant,

H. A. Street
Captain H.M.'s I.M.
Presidency Port Officer.

312/089

3P

D 29 April/89

Transferred to the Public works department

C by order

27 Apr

Assistant Secretary

Marine (1889) Department.

From

THE PRESIDENCY PORT OFFICER,
Madras,

To

THE CHIEF SECY. TO GOVERNMENT,
MARINE DEPARTMENT,
Fort St. George.

CHIEF SECRETARY
15 APL 89
GOVERNMENT OF MADRAS

No. G/163

Dated 13th } April 1889.
Received

No.

Subject.

Regarding the 3 ton Cranes for Gopalpore — Suggesting the necessity of a definite ruling as to the excess weight Cranes as a rule should be able to lift over & above that for what it is actually put down.

28/4 —— 4075.

Circ 3900

To Dw. 1295

For orders.

Cu
27-4-89

In my opinion the cranes should not be accepted as 3 Ton cranes —

The power of a crane is estimated at the full weight that can be safely lifted when the jib is projected to its full radius.

The cranes might be accepted as 2 ton cranes, the price being reduced accordingly

27.4.88

4 6

The present case the [illegible] contractor supplied what was specified. He agreed [illegible] 3 ton cranes —

W
27-4-89

one of them was damaged in lifting 3 tons, it should be replaced.

20/4/88

8/27/4

Ganjam Division Office, Berhampore.
Camp.

No. 394 S.E.

3rd April 1888.

From

The Executive Engineer, 5295
Ganjam Division.

To

The Superintending Engineer,
First Circle,
Dowlaishweram.

Sir,

I have the honor to inform you that the Gopalpore Pier has been completed except a few fish plates and bolts to the Metre gauge rails, and I propose with your approval to take over the Pier from the contractors and hand it over to the Port Officer.

I should be glad to be informed if there is any particular form for taking it over from the contractors.

2. The two 3 ton Cranes are I consider not powerful enough to lift 3 tons in ordinary use. 57

They have been tested to lift over 3 tons, but the strain is evidently very great and the Crane at the south end of the T head shewed signs of giving way when tested with 3 tons

12 cwt: 1qr. 12 lbs.

3 The Port officer States that he is satisfied with the cranes as he should not lift weights over 2 tons with these cranes, but it rests with you to say whether you think the Contractors should provide more powerful cranes or make a reduction in the price of these.

4 In my reply, to an office note of yours regarding testing the cranes, I stated that the centre of the south crane had fractured, when taking the crane to pieces however afterwards, the fracture could not be discovered, the pier was however bent, but on putting the crane together again, a weight of 3 tons and 12 lbs was lifted.

If you are of opinion that the cranes need not be tested to beyond 3 tons the cranes may be passed, though I must still adhere to my opinion that the cranes are not up to working 3 tons weight as a common practice.

5. As the contractors Engineer is anxious to leave Gopalpore now that his work is completed, I shall be glad to have an early answer on the above points.

6. The 1/2 ton crane I have not yet tested as Mr. Hannan transferred it to Janamilli. I have given orders to have it taken to Gopalpore.

1295

I have &c.

(Signed) G. D. Wybrow

Executive Engineer

Ganjam Division.

(True copy.)

Superintending Engineer 1st Circle.

ct 8

Rr/ Fu2 / 3900/88

NO. 49Eu

FROM, G. T. Walch Esquire
THE SUPERINTENDING ENGINEER
FIRST CIRCLE.

TO,

THE Executive Engineer) 2915
Ganjam Division

Dowlaishweram, 14th April 1888

SIR,

With reference to your No. 394 – 3 – 4 – 88, I have the honour to say that there is no particular form for taking over the pier from the contractors; you will have to give them an acknowledgment that from a certain date you take the work over as a completed work and their liability for its up-keep ceases –

2 As regards the 3 ton cranes I cannot in the face of the opinion expressed in the last part of your para 4 authorize their being taken over in any way except conditionally pending a reference to the Chief Engineer.

I have &c
S/ G. T. Walch
Supg Engr I circle

(True copy)

G. T. Walch
9 Supg Engr I circle

No. 48 Gu

FROM,

G. T. Walch Esqr.
~~THE~~ SUPERINTENDING ENGINEER
1295 FIRST CIRCLE.

TO,

THE CHIEF ENGINEER D.P.W.
~~FOR IRRIGATION.~~

DOWLAISHWARAM, 14th April 1888
Recd 19/4/

SIR,

I have the honor to enclose copy of letter No. 394 – 3 – 4 – 88 received from the Executive Engineer Ganjam and my reply thereto and I would request your instructions as to whether the cranes which have absolutely lifted 3 tons without breaking but which are as the Executive Engineer says "not upto working 3 tons weight as a common practice" may be accepted.

2. I am not sufficiently acquainted with what is customary in such cases as to testing, to decide the question, & probably reference to the marine Department is advisable. 8

3. You will note that the Executive

10 8

Engineer states that the Port officer at Gopalpore "is satisfied with the cranes."

4. No doubt if they are accepted it will be advisable to have a notice affixed to them that they are not to be used for weights above, say, 2½ tons.

I have the honor to be,
Sir,
Your most Obedient Sᵗ
C. E. Pevalb
Supdᵗ Engʳ 1ˢᵗ Circle.

CB
inoc

1295

C No 3900

S.M. 3900

FROM,

G. S. Walch Esqr

~~THE~~ SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER

D.P.W.

~~FOR IRRIGATION.~~

DATED 11th
DESPTCHED 19th } April 1888
RECEIVED

No. 48 Gn

ENCLOSURES. 2.

SUBJECT.

Cranes

Requests instructions as to whether certain — may be accepted —

With memo

Memo

The Chief Engineer is of opinion that the question should be decided in strict accordance with the Contractor's agreement. If he agreed to supply 3 ton cranes, and one of them was damaged in lifting 3 tons, it should be rejected.

Jok
30/4/88 E.W.

Supg Engr I Circle

dispd 1/5/88.

0/27/4 O.H. 137-IV.

37/8 O.H. 495 —

Note by the C.E. P.W. Dept.

1295

From the copies of letters furnished by the Presidency Port Officer it would appear that the cranes supplied by Messrs Massey & Co and paid for by this Dept. have been found capable of lifting 3 Tons — and only showed signs of giving ~~[illegible]~~ in the strain when over 3½ Tons were ~~lifted~~ applied. — Such being the case there appears no reason why the Executive Engineer should have had them marked ~~as~~ "not to lift more than 2 Tons". — If a crane is ~~called~~ used upon ~~for~~ lifting ~~[illegible]~~ the weight it is ~~marked for~~ intended for, it must be remembered that the ~~[illegible]~~ duration of the strains caused thereby are generally very short, and as long as the limits of the elasticity of the material forming the component parts is not reached, no lesion /2 can take place in the intervals that occur between successive working of the crane allow the material by virtue of its naturally resilient powers to regain its original form —

If the cranes in question have lifted 3½ tons without fracture, I think they may be safely worked in ordinary practice to 3 Tons, provided that ~~[illegible]~~ men accustomed to such work are employed —

6.5.89

T.W.

G.O.

The above note by the Chief Eng. P.W. Dept is communicated to the Presidency Port officer for information through the Marine Dept.

The Marine Dept.
— S.E.T. Circle

For Marine C. No 378

SAW 1295 1295

Please look up the file of No. 108 D of 1st May. 88 and see whether then, or subsequently, any reference was made to the Marine Dept. or of P.W. Workshops to decide the question of the excess weight which a 3 ton Crane should lift. Send papers

R.S.
30.10.89

R.K.
Please let me know about this.
F.B. 2/5

S.A.W.
Papers put up. We have nothing after No. 108 D of 1-5-88 — D.P.
4-5-89

T.W.

Submitted. W.D.

C.R.S.
6.5.89

13

~~Ass. 2/4/4. No 30/4~~

No. 3 M
Dy No 45 of 1889 PW
1295

Berhampore
3rd April 1889

PORT O[illegible]
11 APL 89
MADRAS

From,
The Executive Engineer
Ganjam Division

To,
The Presidency Port Officer
Madras.

Enclos 5

Sir,

With reference to your letter No $\frac{P}{43}$ dated 18-2-89. I have the honor to inform you that the two 3 tons cranes supplied by Messrs Massey and Co, Gopalpore Pier Contractor, are found to be capable of lifting more than 3 tons each but as a precautionery measure they have been marked at the suggestion of the Superintendin Engineer and Executive Engineer Mr. Wybro "not to lift more than 2 tons".

In the Specification para 11 it is simpl mentioned that the two fixed cranes are t lift 3 tons each and as they have actua lifted more than 3 1/2 tons at the time of testing without being damaged as wil be seen from the Executive Engineer Mr.

Wybr

Wybrow's letter No. 394 SE dated 3-4-88 to the Superintending Engineer copy attached they were taken over by my predecessor.

The lifting power of the cranes ~~was~~ was reported to the Superintending Engineer by Mr. Wybrow in the letter quoted above and the Superintending Engineer and Chief Engineer's reply thereon are herewith attached for your information.

I have the honor to be
Sir
Your most obdt servt
2/4
Executive Engineer
Ganjam Division.

3/4

6
~~E46~~
PW4413

No 394 SE.

1295

To
The Superintending Engineer.
1st Circle Dowlaishwaram.

Sir,

I have the honour to inform you that the Gopalpore Pier has been completed except a few fish plates and bolts to the metre gauge rails and I propose with your approval to take over the Pier from the Contractor and hand it over to the Port Officer. I should be glad to be informed if there is any particular form for taking it over from the Contractor.

2 The two 3 ton cranes are I consider not powerful enough to lift 3 tons in ordinary use, they have been tested to lift over 3 tons but the strain is evidently great and the crane at the S. end of the T head showed signs of giving way when tested with 3 tons 12 cwt 1 qr 12 lbs.

3 The Port officer states that he is satisfied with the cranes as he should not lift weights over 2 tons with these cranes but it rests with you to say whether you think the Contractor should provide more powerful cranes or make a reduction on the price of these.

4 In my reply to an Office note of yours regarding testing the cranes I stated

that the centre pin of the small crane had ~~produced~~ fractured - when taking the crane to pieces however afterwards the fracture would not be discovered, the pin was however bent, but in putting the crane together again, a weight of 3 tons & 12 lbs was lifted. If you are of opinion that the cranes need not be tested to beyond 3 tons the crane may be passed, though I must still adhere to my opinion the cranes are not up to making 3 tons weight as a common practice.

5. As the Contractor's Engineer is anxious to leave Gopalpore now that his work is completed I shall be glad to have an early answer on the above points.

6. The 1/2 Ton crane I have not yet tested as Mr Hamean transferred it to Jaranmilly I have given orders to have it taken to Gopalpore.

(Sd) G. D. McGrow
Executive Engineer
Rushikulya Division.
3-4-80

(True copy)

3/4
Executive Engineer
Ganjam Dn.

5/3

Engr 5

PW 4413/87

No 49 G.W.

From

G. T. Walch Esqr 175

Supg. Engineer

First Circle

To

The Executive Engineer (2)75

[illegible] Division

Dowlaishweram 14th April 1888.

Sir

With ref ce to your No 394- 3-4-88. I have the honor to say that there is no particular form for taking over the pier om the contractor; You will [illegible] give them an ackn[illegible]ledgment that they [illegible] from a [illegible] you take the work over as a completed work and their liability for its up-keep ceases.

2. As regards the 3 tons cranes I cannot in the face of the opinion expressed in the last part of your para 4 authorize their being taken over in any way except conditionally pending a reference to the Chief Engineer.

(Sd) G. T. Walch.

Supg Engineer

True Copy.

3/4

Executive Engineer

Ganjam Dn

3/4

E4
PW 4413/18

No 240 G.E.

D.P.W.

Superintending Engineer's Office 1st Circle
Station Dowlaishweram

dated 18th
despatched 20 } June 1888
Received

1295

Enclosures 2

To The Executive Engineer
Ganjam Division

Reference Executive Engineer's
No 394 dated 3rd April — } 1888

Gopalpur Pier

(1) With reference to the above and the undersigned's reply No 49 - 14/4/88 Copies of letter× to the Chief Engineer on the subject and his reply No 108 / 1-5-88 are enclosed

×No 48 of 14-4-88

(2) It is understood from Mr Wybrow's letter above referred to that the 3 Ton Cranes did absolutely lift 3 tons without being injured (see para 4 of his letter) and if so they must be accepted.

(3) The report on the testing of the ½ ton Crane which it is supposed has long before this been replaced on the pier has not yet been received.

(Signed) G. T. Walch
Superintending Engineer

True copy
3/4

No. 48 G.N. 1295

From
G. T. Walch Esqre
Superintending Engineer
First Circle
To
The Chief Engineer
P. W. Department

Dowlaishweram 14 April 1888

Sir,

I have the honor to enclose copy of letter No $\frac{394}{3\text{-}4\text{-}88}$ received from the Executive Engineer Ganjam and my reply thereto and I would request your instructions as to whether the Cranes which have absolutely lifted 3 tons without breaking but which are as the Executive Engineer says not up to working 3 tons weight as a common practice" may be accepted

2. I am not sufficiently acquainted with what is customary in such cases as to testing, to decide the question and probably reference to the Marine Department is advisable. 19

(3) You will note that the Executive Engineer states that the Port Officer

at

at Gopalpur is satisfied with the cranes.

(4) No doubt if they are accepted it will be advisable to have a notice affixed to them that they are not to be used for weights above, say 2½ tons.

I have the honour to be
Sir
Your most obedt Servant
(Signed) G. T. Walch
Superintending Engineer

(True Copy)

(Signed) G. T. Walch
Supg Engineer
I Circle

True copy.

3/4
Executive Engineer
Ganjam Dn

E2

M/4413/89

No 108 D

Public Works department
Ootacamund 7 May/88

Memorandum. 1295

Letter from the Superintending Engineer I Circle No 48 G.R. dated 14th April 1888. requesting instructions as to whether certain cranes which have lifted 3 tons without breaking but which are not up to working 3 tons as a common practice may be accepted. 1295

The Chief Engineer is of opinion that the question should be decided in strict accordance with the contractor's agreement. If he agreed to supply 3 ton cranes, and one of them was damaged in lifting 3 tons, it should be rejected.

(Signed) J. O. Hasted Colonel R.E.
Chief Engineer P.W.D.

(True Copy)

(Signed) G. T. Walch
Superintending Engineer
I Circle

True copy.

20

3/4
Executive Engr
Ganjam Dn

Pd 6/3.

P. W. Department

1295

Note by the Ag. Chief Engineer
Genl. Buildings and Roads Branch
~~P. W. Department~~.

From the copies of letters furnished by the Presidency Port Officer it would appear that the Cranes supplied by Messrs. Massey & Co and paid for by this Department have been found capable of lifting 3 Tons - and only showed signs of giving in to the strain when over 3½ Tons were applied - Such being the case there appears no reason why the Executive Engineer should have had them marked "not to lift more than 2 Tons" If a Crane is used for lifting the weight it is intended for, it must be remembered that the duration of the strains caused thereby are generally very short, and as long as the limits of Elasticity of the material forming the component parts are not reached, no lesion can take place, as the intervals that occur between successive workings of the Crane allow the material by virtue of its resilient powers to regain its original form –

If the Cranes in question have lifted 3½ Tons without

1295

5 P

fracture, I think they may be safely worked in ordinary practice, to 3 Tons, provided that men accustomed to such work are Employed.

Recd

7.5.89

EW

E.P. 5/16

P.W.C. Secy

D/14-5-89

1295

G O No 1295 W
D/15-5-89.

1295

Is the note read at the head of this P-G. by the Chief Engr P W Deptt or by Chief Engineer General & Buildings & Roads Branches

Dw.

May the heading be altered - "Ag. Chief Engineer Genl: Bdgs and Road Branch" is correct.

15/5

Alter the heading

15.5.89

H.C.

15/5/9

23

H~~w~~ R

1295 W

B o R
Works

PUBLIC WORKS DEPARTMENT.

6 P

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 15th May 1889

{295

READ the following

Letter from the Presidency Port Officer Madras. (H. E. No. $\frac{G}{163}$ d/. 13th April 1889)

Endt in the Marine Department (" " " " 24th Apl. 1889.)

Note by the Ag. Chief Engineer General: Buildings & Roads Branch ~~P. W. Dept~~ (" "

The above Note by the Chief Engineer P. W. Dept is communicated to the Presidency Port officer for information through the Marine Department.

[illegible]

7.5.89

WCB

13.5.89

Despd 23/5/89

To

The Marine Dept

" " Supdg Engineer I Circle

Govt. of (1889) Madras.
PUBLIC WORKS.

15/5 9

Dated

Recd. Encl.

G.O., 15 May 1889 No. 1295W

Cranes

Note by the Manager, P.W. Dept:, ~~in regard~~ relating to the – supplied by Messrs Massey & Co: for Gopalpur, and to the Cocanada Port Office, thro' the Marine Dept

70/2

D° 15/5

Cw 15/5