M.R.O. 1—10,006—28-2-50.

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. 1521-22 Press
B.P. No. Mis.

Dated 1-6- 1875 195

Not to be folded or roughly handled

12

Proceedings of the Madras Government, Public Works Department,
1st June 1875.

No. 7. Read the following letter from Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 14th May 1875, No. 280 :—

I HAVE the honor to submit, for the sanction of the Government of India, an estimate, amounting to Rupees 64,101, of the cost of laying down pipes, &c., in connection with the proposed watering arrangements required at the Perambore Workshops on the Madras Railway. Two plans accompany the estimate.

Nos. 1,043 and 1,069.

2. In forwarding the estimate the Agent quotes as follows from a letter addressed to the Acting Chief Engineer by the Acting Locomotive Superintendent :—

"With regard to the improved arrangements applied for in connection with the water service at these works, I would beg to point out, in addition to the convenience of having an ample supply of water for shop purposes, the great importance of having such arrangements as would ensure at all times a supply of water being readily available if required in case of the occurrence of a fire in any portion of the works. The present water service is led through pipes $2\frac{1}{2}$ inches in diameter, through which a head of water could not be obtained sufficiently strong to render the Company's steam fire engines of any appreciable assistance in an emergency ; and in addition to this drawback, the present service extends over so limited an area that the water thrown by the fire engines would have but little effect upon any of the shops other than those situated in the immediate vicinity of the tank at the west end of the works from which the supply of water is now obtained.

"With the improved service proposed, a system of 8 inch piping would extend throughout the whole of the works, and be laid in such a manner as to ensure, by means of hydrants, a supply of water being procurable in a sufficient quantity to protect as far as possible, in case of fire, any one or all of the shops as well as the offices, the whole of the stock of teak logs and other timber, the store buildings containing an extensive stock of miscellaneous stores, and the timber sheds in which is stacked a large quantity of valuable scantling.

"It is also proposed, in connection with the improved system of piping, to erect a tank on cast-iron pillars in close proximity to the large reservoir at the east end of these works, from which reservoir the supply of water would be drawn by means of a pumping engine. By this arrangement a large additional supply of water will be rendered available, which it is not possible at present to utilize in any way ; and the advantage of being able to utilize this supply will, I think, be rendered more apparent when I mention the fact that whereas the reservoir at the west end of the works has occasionally failed, that at the east end is fed by a spring, and has throughout the year a plentiful supply of water."

3. The Acting Locomotive Superintendent proposes, with one exception, to retain the $2\frac{1}{2}$ inch piping in its present position, no provision having been made in the revised arrangements to lead the water into the interior of the present shops. The exception* is the length from the stores to the tanks on the east side of the works, and it is proposed to utilize the piping taken from there in the new smiths' shop and foundry, an estimate† for which is separately forwarded. The bottom of the

* Shown by a dotted line on the plan.

† *Vide* letter, No. 277, dated 14th May 1875.

2 sh
3 Fl

existing reservoir on the staging in the eastern tank is 28·85 feet above the rail level at that part of the yard; and, as this was found to give insufficient head, the level of the new tank was fixed at 33 feet above rails.

Vide letter, No. 736, from Chief Engineer, forwarded with Agent's letter, No. 1,004, dated 11th November 1874.

4. The question of capacity is fully gone into by the Acting Locomotive Superintendent in letter,* No. 984, dated 7th May 1874, a copy of which is enclosed.

* To the Acting Chief Engineer.

5. The subject has been repeatedly discussed with the Railway authorities, and I am of opinion that the work is necessary for the reasons stated by the Acting Locomotive Superintendent. The question as to the necessity for incurring this expenditure was, however, at my suggestion, referred to the Board of Directors before being submitted for sanction; and it will be observed from the enclosures to the Agent's letter, No. 494, dated 12th instant, that, after consultation with the Chief Engineer and Locomotive Superintendent, both of whom were in England at the time on leave, and after having also referred the question to Sir John Hawkshaw, the Directors are of opinion that the proposed alterations and additions to the watering arrangements at the Perambore Workshops are of great importance and urgently required.

6. Funds are available from Schedule B of the Budget Estimate for 1875-76. The sanction will lapse at the end of the twelfth quarter after its receipt, provided no unexpected delay takes place in the receipt of the English stores.

7. The estimate for the above work was not included in the schedule submitted for the half-year ending 30th June 1875. It was received in this office in August 1874, and its submission has been delayed in consequence of the subject having been referred for the opinion of the Board.

From R. B. ELWIN, Esq., Agent and Manager of the Madras Railway Company, to Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, dated Madras, 11th November 1874, No. 1,004.

WITH reference to your letter of the 31st of August last, No. 815, I have the honor to enclose, for your information, a copy of the Chief Engineer's letter of the 6th instant, No. 736, with the plans and copies of the two letters* from the Acting Locomotive Superintendent therein alluded to.

* No. 2,746, 2nd November 1874.
No. 984, 7th May 1874.

2. I also forward you a drawing of the tank to contain 70,000 gallons proposed to be erected at the Perambore Works in connection with the arrangements for extinguishing accidental fires.

From T. H. GOING, Esq., for Chief Engineer, Madras Railway, to R. B. ELWIN, Esq., Agent and Manager of the Madras Railway Company, dated Madras, 6th November 1874, No. 736.

YOURS No. 2,956, of 3rd ultimo.

I send you herewith the plan and section of the present Smithy at Perambore asked for by the Consulting Engineer in the 3rd paragraph of his letter, No. 815, of 31st August 1874; also a plan showing the existing arrangement of piping and the comparative height of the rails at various parts of the yard.

2. From the Acting Locomotive Superintendent's letter, No. 2,746, of 2nd instant, a copy of which is enclosed, you will observe that he proposes to retain all the existing 2½ inch piping in its present position, with the exception of the length (shown by a dotted line on the plan) between the stores and the eastern tank which he suggests should be taken up and relaid in the new smith's shop and foundry. The bottom of the existing reservoir on the staging in the eastern tank is 28·85 feet above the rail level at that part of the yard; this I am told was found to be insufficient head and the level of the new tank was, therefore, fixed by Mr. Wright at 33 feet above rails. The question of "capacity" is fully gone into by the Acting Locomotive Superintendent in his letter, No. 984, of 7th May, a copy of which has already been sent to you.

From J. W. MELLIS, Esq., for Agent and Manager of the Madras Railway Company, to Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, dated Madras, 12th May 1875, No. 494.

WITH reference to your letters, dated the 18th of November 1874, Nos. 1,097 and 1,098, I have the honor to enclose you two extracts* from letters received from the Board of Directors on the subject of the proposed iron and brass foundries and alterations and additions to the watering arrangements at the Perambore Workshops.

* Paragraph 6 of No. 547 and paragraph 8 of No. 549.

2. You will observe that the Directors having consulted the Chief Engineer and the Locomotive Superintendent upon the subject, and having also referred the question to Sir John Hawkshaw, have come to the conclusion that the alterations and improvements proposed are of great importance, and the altered watering arrangements especially urgently required.

3. Under these circumstances, I request that the Government will be pleased to authorize the necessary expenditure, estimates of which were submitted with my letters, Nos. 739 and 760, dated respectively the 20th and 27th of August 1874.

Extract from a letter from the Secretary, Madras Railway Company, No. 547, dated London, the 26th February 1875.

Proposed foundries, &c., at Perambore.

PARAGRAPH 6.—Referring to paragraphs 21 to 28 of No. 1,134 on the subject of the construction of iron and brass foundries and alterations and additions to the watering arrangements at the Perambore Workshops, I am desired to inform you that, after communication with Mr. Wright, the Board are of opinion that the alterations and improvements proposed are of great importance, and the latter especially urgently required. As the tracings and estimates might, in answer to a telegraphic message, be placed in their hands soon after the arrival of Mr. Beresford Anderson, and as Mr. Wright, as you will have learned from the preceding paragraph of this communication, is compelled to remain some months longer in England, the Board decided upon sending you the message which you will, no doubt, have received on the 29th ultimo, and they will, on receipt of the plans and estimates, fully consider them with the aid of Mr. Anderson and Mr. Wright, and, if necessary, with the advice of their Consulting Engineer.

(True Extract.)

(Signed) J. W. MELLIS,
for *Agent and Manager.*

Extract from a letter from the Secretary, Madras Railway Company, No. 549, dated London, the 9th April 1875.

Proposed foundries and watering arrangements at Perambore, approved.

PARAGRAPH 8.—The plans and estimates of the iron and brass foundries and smithy, &c., proposed to be constructed at the Perambore Workshops, forwarded with your letter, No. 1,152, were duly received, and the Directors have had an opportunity of considering them in communication with the Chief Engineer and Locomotive Superintendent, and having also referred the question to Sir John Hawkshaw, they are confirmed in the opinion expressed in paragraph 6 of No. 547, as to the necessity of the works in question, and they trust that the requisite sanction for their construction may now be accorded by Government.

(True Extract.)

(Signed) J. W. MELLIS,
for *Agent and Manager.*

Proceedings of the Madras Government, Public Works Department,
1st June 1875.

From E. C. BOODLE, Esq., Acting Locomotive Superintendent, Madras Railway, to T. H. GOING, Esq., Acting Chief Engineer, Madras Railway, dated Perambore Works, 7th May 1874, No. 984.

YOUR No. 538, dated 17th ultimo.

I beg to forward, herewith, a tracing (P. W. No. 22) of the Perambore Workshops, on which I have shown the existing piping as well as the new watering arrangements which I proposed should be laid down. In the drawings* returned with my No. 2,258, of the 29th August 1873, the capacity of the tank proposed is fixed at 34,560 gallons; but as our two steam fire engines will, when working at their full power, use from 30,000 to 35,000 gallons of water per hour, and the supply in the tank would thus in the case of a fire last for one hour only, it would, I think, be well to increase the capacity of the tank to about 70,000 gallons, and I have therefore shown in the plan. I now forward pillars to support right tanks of the dimensions shown in your plan No. 927 instead of four as originally proposed.

* Nos. 926 and 927.

No. 8. ORDER THEREON, 1st June 1875, No. 1,521.

RAILWAY, No. 4.

ORDERED that these papers be forwarded to the Government of India, and that sanction be requested to the estimated outlay of Rupees 64,101.

(Here enter, No. 1,522, dated 1st June 1875.)

(True Extract.)

Major, R.E.,
Offg. Joint Secretary to Government.

To the Consulting Engineer for Railways.

Exd. A. Grubert.
Spare Copies

PUBLIC WORKS DEPARTMENT,
OOTACAMUND, *1st June* 1875.

No. 9.

No. 1,522.

FROM

MAJOR J. O. HASTED, R.E.,
Officiating Joint Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
Public Works Department.

RAILWAY, No. 5.

SIR,—I am directed to forward, herewith, plans and estimates, amounting to Rupees 64,101, for alterations and additions to the watering arrangements at the Perambore Workshops on the Madras Railway. The correspondence with which the plans and estimates are accompanied explains the nature and necessity of the proposed works, which the Board, after consultation with the professional advisers of the Company, consider to be of great importance. I am to request the sanction of the Government of India to the estimated outlay.

2. Proposals for provision of funds are contained in paragraph 6 of the Consulting Engineer's letter.

I have the honor to be,
Sir,
Your most obedient servant,

Major, R.E.,
Offg. Joint Secretary to Government.

Exd. A. Grubert.
Spare Copies.

No. 1004

MADRAS RAILWAY.

AGENT AND MANAGER'S OFFICE.

Madras, 11th November 1874.

From

Robt: B. Elwin Esq.
Agent and Manager. of the M R Co

To

Lieut Colonel A. Wm. Stuart Stewart RE
Consulting Engineer for Railways.

SIR,

With reference to your letter of the 31st of August last No 815, I have the honour to enclose for your information a copy of the Chief Engineer's letter of the 6th instant No 36, with the plans, and copies of the two letters from the Acting Locomotive Superintendent therein alluded to.

× No 2746 - 30 Nov. 1871
No 984 - 9 May 1871.

2. I also forward you a drawing of the Tank to contain 70,000 gallons proposed to be erected at the Perambore Works in connection with the arrangements for extinguishing accidental fires -

I have the honour to be
Sir
Your most obedient Servt
Robt. B. Elwin
Robt. Elwin Manr. M.R.

No. 1004

MADRAS RAILWAY.

AGENT AND MANAGER'S OFFICE.

Madras, 11th November 1874.

From

Robt. B. Elwin Esq.
Agent and Manager. of the M.R.Co

To

Lieut Colonel A. Wm. Stewart R.E.
Consulting Engineer for Railways.

SIR,

With reference to your letter of the 31st of August last No 815, I have the honour to enclose for your information a copy of the Chief Engineer's letter of the 6th instant No 936, with the plans, and copies of the two letters from the Acting Locomotive Superintendent therein alluded to.

× No 2746 - 5 Nov. 1874
No 984 - 7 May 1874.

2. I also forward you a drawing of the Tank to contain 70,000 gallons proposed to be erected at the Perambore Works in connection with the arrangements for extinguishing accidental fires.

I have the honour to be
Sir
Your most obedient Servt
Robt. B. Elwin
Agent Mad. Ry. Co.

MADRAS RAILWAY.

From

The Agent and Manager.

To

The Consulting Engineer

for Railways.

Dated 11th November 1874

Rec'd 12.

No. 1004,

Forwarding Copies of letters from the Chief Engr & Coly Govt on the subject of the proposed Sunkay and Waterway Arrangements at Pedambakam.

Mdrs Railway Engineers Office
Chief Engineer's Office
Madras 9th Nov 1874.

No 1036

4

The Agent and Manager
Dear Sir,

Yours No 2958 of 3rd instant

I send you herewith the plans and section of the proposed Sunkay at Pedambakam asked for by the Corporation, Engineer in his 3rd para of his letter No 1015 of 3rd August last. Also a plan and section showing the existing arrangement of sluicing and the Corporation weight of the roads at present in the yard

2. From the Acting Secretary Superintendent of Police No 2746 of 2 instant I am directed to enclose you with where that the Inspector of Salaries all the existing 2½ inch piping in the present position with the exception of the length between A & B and the extra 110 pipes required to be laid down between B & C and the extra length of 110 pipes should be taken up and relaid in the new Sunkay, and Waterway. The bottom of the Sunkay, reservoir on the Pedambakam Canal is 2 ft 8 in. above the road level at that part of the yard this is now filled with ground & the remainder is to be excavated and the level of the new Canal there after will be 33 feet above rail. The question of Cascades is finally gone into by the Acting Governor in Council who has letter No 984 of 7 May a copy of which I am already sent to you.

Yours faithfully
(Signed) H.W. Gravis
for Chief Engineer

Yours and Obedt Servt
(Signed) H. Pitt Lt-Col
Chief Engr & Secy to Govt

Mdrs 3256/75.
3 Dec 1874

GO 1st June 79 no 17 Rly

No. 494

MADRAS RAILWAY. 11

AGENT AND MANAGER'S OFFICE.

Madras, 12th May 1875.

From

The *Agent and Manager.* of the M R Co

To

Lieutt Col. Hall Shaw Stewart R E &c.

Consulting Engineer for Railways.

SIR,

With reference to your letters dated the 18th of November 1874, ora. 1097 and 1098, I have the honour to enclose you two extracts from letters received from the Board of Directors on the subject of the proposed iron and brass foundries, and alteration and additions to the watering arrangements, at the Perambore Workshops.

2. You will observe that the Directors having consulted the Chief Engineer and the Locomotive Superintendent upon the subject, and having also referred the question to Sir John Hawkshaw, have come

x Paragraph 6 of ora 547

+ Paragraph 8 of ora 549

No 2256/75.

Gl / June / 75 with 3 Pkts /

to the conclusion that the alterations
and improvements proposed are
of great importance, and, the
altered watering arrangements
especially, urgently required.

3. Under these circumstances
I request that the Government
will be pleased to authorise
the necessary expenditure, Estimates
of which were submitted with
my letters 739 and 760 dated
respectively the 20th and 27th
of August 1874.

I have the honour to be,
Sir,
Your most obedient servant
J. H. Mellis.
for the Agent & Manager

MADRAS RAILWAY.

From

The Agent and Manager.

To

The Consulting Engineer

for Railways.

Dated 12 May 1875.

Rec'd 13.

No. 1194.

Sir,

Having referred to Para 6 of your letter No 9256/5 of 1875, on the subject of the construction of iron and brass foundries, and alterations and additions to the watering arrangements at the Perambore workshops, I am desired to inform you that, after communication with Mr Wright, the Board are of opinion that the alterations and improvements proposed are of great importance, and the latter, especially, urgently required. As the drawings and estimates might in answer to a telegraphic message, be forwarded in three hours soon after the arrival of Mr. Beresford at Madras, as Mr. Wright, as you will have learned from the preceding paragraph of this communication, is compelled to remain some months longer in England, the Board decided upon sending you the next mail which you will no doubt have received on the 22nd inst, and they will, on receipt of the plans and estimates, fully consider them with the aid of Mr Anderson and Mr Wright, and if necessary, with the advice of their Consulting Engineer.

True Extract

J. H. Ellis.

S.P. for Agent & Manager.

9256/75.

Col. Lang 75 m 3 Ry

15

Extract from a letter from the Secretary M. R. Co. No 547 dated Madras the 26th February 1875.

Proposed four lines not at Perambore.

Para 6. Referring to paras 21 to 28 of 1134, on the subject of the construction of iron and brass foundries, and alterations and additions to the watering arrangements at the Perambore workshops, I am desired to inform you that, after communication with Mr Wright, the Board are of opinion that the alterations and improvements proposed are of great importance, and the latter, especially, urgently required. As the drawings and estimates might in answer to a telegraphic message, be forwarded in three hours soon after the arrival of Mr. Beresford at Madras, as Mr. Wright, as you will have learned from the preceding paragraph of this communication, is compelled to remain some months longer in England, the Board decided upon sending you the next mail which you will no doubt have received on the 22nd inst, and they will, on receipt of the plans and estimates, fully consider them with the aid of Mr Anderson and Mr Wright, and if necessary, with the advice of their Consulting Engineer.

True Extract

J. H. Ellis.

S.P. for Agent & Manager.

Extract from a letter from the Secretary
of M. L. C. of 549 dated London the 9th
April 1875.

Read
Directors
Manager
Chief Engineer
Auditor

Paris 8th The plans and estimates
of the new and heavy foundries, and
of the year, prepared to be constructed
at the Portsmouth Dockyard, forwarded
with the year letter No. 1162, were duly re-
ceived, and the Directors have had an
opportunity of considering them in
communication with the Chief Engineer,
and the Superintendent; and
having also referred the question to
Sir John Hawkshaw, they are confirmed
in the opinion expressed in paragraph 6 of 547
as to the necessity of the works in
question, and they have that there
provision should be made for their construction
may now be recorded by Government.

I have &c

J. W. Mellis.

Secretary & Manager.

No. 3296.
6/75.

Col James 75 mB No 7.

Lord

Perambore Works
7th May 1874

No 984

To
The Acting Chief Engineer

Dear Sir,

Your No. 538 dated 17th ultimo

I beg to forward herewith a tracing (P.W. No. 22) of the Perambore Workshops on which I have shewn the existing piping as well as the new watering arrangements which I proposed should be laid down. In the drawings returned with my No. 2258 of the 29th August 1873, the capacity of the tank proposed is fixed at 34,560 Gallons, but as our two steam Fire Engines will when working at their full power, use from 30,000 to 35,000 gallons of water per hour, and the supply in the tank would thus in the case of a fire last for one hour only, it would I think be well to increase the capacity of the

26/927.

No. 2256/75.
7/75.

GC/June/75 mB No 7

the tank to about 70,000 gallons, and I have therefore shewn in the plan. I now forward pillars to support right tanks of the dimensions shewn in your plan No. 927 instead of four as originally proposed.

× × × × ×

Yours faithfully
(Signed) E. C. Boodle
Ag. Loco. Supt.

(True Copy)

Signed R. B. Elwen
Agent and Manager

No. 2296
E. D.

Railway Department.

Madras 14 May 1875.

CONSULTING ENGINEER'S OFFICE.

No. 280

From
LIEUT.-COLONEL J H. M. SHAW STEWART, R.E.,
Consulting Engineer for Railways,

To
COLONEL G. W. WALKER, R.E.,
Secretary to Government,
Public Works Department,
Fort Saint George.

SIR,

I have the honour to submit for the sanction of the Government of India an estimate, amounting to £64,101, of the cost of laying down pipes, &c., in connection with the proposed watering arrangements required at the Perambore Workshops on the Madras Railway. Two plans accompany the estimate.

1043 and 1069

2. In forwarding the estimate the Agent quotes as follows from a letter addressed to the Acting Chief

Chief Engineer by the Acting Locomotive Superintendent:-

"With regard to the "improved arrangements applied for in "connection with the water service at "these works, I would beg to point out, "in addition to the convenience of having "an ample supply of water for shop "purposes the great importance of having "such arrangements as would ensure, "at all times, a supply of water being "readily available if required in case of "the occurrence of a fire in any portion "of the works. The present water service is led through pipes 2½ inches "in diameter, through which a head "of water could not be obtained sufficiently strong to render the Company's steam

"fire engines of any appreciable assistance "in an emergency, and in addition to "this drawback, the present service ex- "tends over so limited an area that "the water thrown by the fire engines "would have but little effect upon any "of the shops other than those situated "in the immediate vicinity of the "tank at the west end of the "works, from which the supply of "water is now obtained.

"With the improved "service proposed, a system of 8" piping "would extend throughout the whole "of the works, and be laid in such "a manner as to ensure, by means "of Hydrants, a supply of water being "procurable in a sufficient quantity "to protect as far as possible, in case

of

"If fire, any one or all of the shops
"as well as the offices, the whole of
"the stock of teak logs, and other
"timber: the store buildings containing
"an extensive stock of miscellaneous
"stores and the timber sheds, in
"which is stacked a large quantity
"of valuable seasoning.

"It is also proposed,
"in connection with the improved
"system of piping, to erect a tank
"on cast-iron pillars in close
"proximity to the large reservoir at the
"east end of these works, from which
"reservoir the supply of water used
"to drawn by means of a pumping
"engine. By this arrangement a
"large additional supply of water will
be

"be rendered available, which it is re-
"not possible at present to utilise
"in any way; and the advantage
"of being able to utilise this supply
"will, I think, be rendered more ap-
"parent when I mention the fact that
"whereas the reservoir at the west end
"of the works has occasionally failed,
"that at the east end is fed by a
"spring, and has throughout the
"year a plentiful supply of water."

The acting Locomotive
Superintendent proposes, with one ex-
ception, to retain the 2½ inch piping
in its present position, no provision
having been made in the revised
arrangements to lead the water into
the interior of the present shops. The
exception is the length from the shop

to

× shown by a dotted line on the plan.

to the tanks on the east side of the works, and it is proposed to utilise the piping taken from there in the new Smiths shop and Foundery, an estimate for which is separately forwarded. The bottom of the existing reservoir on the staging at the eastern tank is 28.85 feet above the rail level at that part of the yard; and as this was found to give insufficient head, the level of the new tank was fixed at 33 feet above rails.

× Vide letter No 2767 d/ 14th May 1875

Vide letter No 736 from Ch: My forwd with Agents letter No 1004 d/11 Nov: 1874.

4. The question of capacity so fully gone into by the Acting Locomotive Superintendent in his letter No 984 dated 7th May 1874, a copy of which is enclosed.

× To the Actg. Chief Engr.

The

5. The subject has been repeatedly discussed with the Railway Authorities, and I am of opinion that the work is necessary for the reasons stated by the Acting Locomotive Superintendent. The question as to the necessity for incurring this expenditure was however, at my suggestion, referred to the Board of Directors before being submitted for sanction, and it will be observed from the enclosure to the Agents letter No 2494 dated 12th instant that, after consultation with the Chief Engineer and Locomotive Superintendent, both of whom were in England at the time on leave, and after having also referred the question to Sir John Hawkshaw, the Directors are of opinion

opinion that the proposed alterations and additions to the watering arrangements at the Perambore Workshops are of great importance and urgently required.

6. Funds are available from Schedule B of the Budget estimate for 1875-76. The sanction will lapse at the end of the twelfth quarter after its receipt provided no unexpected delay takes place in the receipt of the English stores.

7. The estimate for the above work was not included in the Schedule submitted for the half-year ending 30 June 1875. It was received in this office in August

August 1874, and its submission has been delayed in consequence of the subject having been referred for the opinion of the Board.

I have the honor to be
Sir
Your most obedient Servant
Lieutenant Col. R.E.
Cons. Engineer for Railways

2nd Draft

Public Works Dept.

Proceedings of the Madras Government

Under date the 1875.

Read the following

From

The Consulting Engr for Rys (Ho. No. 280 of 12th May 1875)

Rameswaram

11 Sc Road -
17-6-75 4 & 6 mm: 1521 of 1st June 1875

Ordered that three

copies be forwarded to

the Govt of Madras, and

that sanction be requested

to the estimated outlay

of Rs 64,101.

(Ho. No. 1522 dated 1st June 1875)

To the Secy. to the Govt of Madras

Public Works Dept.

Cur: Engr for Rys:
11 Sc Road - 17-6-75

P. W. 1875 Deptt.

RAILWAY DEPARTMENT.

No: 3296

From
The Consulting Engineer,
for Railways,

To
The Secretary to Government,
P. W. Department,
Fort Saint George.

Dated 14 June 1875
Recd. 17

Ho. No: 1521-1-6-75

Sanctioned

£.10 No. 280

Pamban Workshops

Submitting plans and estimates for laying down lines at Pamban Workshops.

Cir: 21/5/75 Ords 2/5/75
Deputy Secy 17-8-75

No. 3.

forward herewith plans and estimates amounting to Rs 84,101 for alterations and additions to the watering arrangements at the Perambore Work-shops on the Madras Railway. The correspondence with which the plans and estimates are accompanied explains the nature and necessity of the proposed works, which the Board, after consultation with the professional advisers of the Company, consider to be of great importance. I am to request the sanction of the Govt. of India to the estimated outlay.

2. Proposals for provision of funds ~~for cancellation of sanctions~~ are contained in para 6 of the Consulting Engineer's letter.

for

Wy. 21/5/75

Wy. 30 & 5 copies of 20 Nos
15-21 & 15-22 with 2
Estimates & 2 Plans
Desps - 17-6-75.

17-5-75

3296

Govt. of India. Madras.

PUBLIC WORKS.

To

The Right Honble
the Secy. to the Govt. of India

Dated

Rec'd.

Encl.

G. O. Dated No. 1571 1572

Nos. 5-10
11
7-8
9

Forwarding for sanction plans and estimates amounting to Rs: 64,101 for alterations and additions to the watering arrangements at the Perambore Workshops on the Madras Railway.

Perambore Workshops, Madras Railway. — Plans and Estimates amounting to Rs: 64,101 for alterations and additions to the watering arrangements at the ——, forwarded to the Government of India for sanction.