Number of Pcs 30
Date of Insp 11.3.88

Cma

P.W. D

G.O.No 2600–2602 W
Dt 30.9.1887

U.S

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From Lieutenant-Colonel J. PENNYCUICK, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Kodaikánal, 20th August 1887, No. 4 P.R.

With reference to G.O., No. 498 I., of 13th instant, and in continuation of the note forwarded with my No. 88 C., of 8th instant, I have the honor to enclose a list of machinery, &c., which I think may be ordered from England at once and paid for before the end of the official year.

2. The General Superintendent, Public Works Stores, should be asked to check the prices entered and to put the indent in proper form.

3. I am not sure whether the whole cost of the articles at the current rate of exchange (1/4 per rupee) should be debited against the year's grant, or only the cost at 2 to the rupee, the remainder being charged to a separate head of "loss by exchange." If the latter be the case, the debit will be reduced from Rs. 68,471 to Rs. 48,500, and the articles named in the supplemental list may be ordered.

4. The articles in question should be despatched so as to arrive at *Tuticorin* before the end of January, so that they may be got to the top of the Gúdalúr ghât during the following month; this is especially desirable in the case of the stone-breakers which are very heavy and will be difficult to move except in dry weather; February is much the best month in the year for this purpose.

5. I think the articles named in the first list will be as much as need be ordered at present, as in addition to the Rs. 50,000 mentioned in my former note we can spend about Rs. 5,000 in doors and windows and similar work for the various buildings, which can be made up in Trichinopoly or Madura, and about Rs. 5,000 on temporary buildings in the Cumbum and Vaigai valleys, besides the cost of conveyance of the machinery, which it is proposed to order now from Tuticorin to the top of the Gúdalúr ghât which I estimate approximately at Rs. 6,000.

6. This makes up a total of Rs. 66,000, or with establishment charges Rs. 82,170, which, added to the proposed English expenditure, will about make up the total grant of Rs. 1,50,000.

No. 164 M.

Forwarded to the General Superintendent, Public Works Stores, who will submit, at an early date, a special indent for the machinery required for the Periyár project for submission to the Secretary of State.

(By Order.)

(Signed) J. P. DAVIDSON,
Asst. Chief Engineer for Irrigation.

CHEPÂK,
29th August 1887.

From Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department (through the Examiner, Public Works Accounts), dated Bangalore, 15th September 1887, No. 2485.

With reference to the enclosed endorsement, No. 164 M., dated 29th August 1887, from the Assistant Chief Engineer for Irrigation, I have the honor to forward

a special Home indent (in triplicate) for machinery required for the Periyár project works in the VI Circle.

2. The rates have been calculated at two shillings per rupee with reference to paragraph 4 of the rules communicated in G.O., No. 202 W., dated 25th January 1886.

3. Traction engine and wagons have not been included in the indent as desired by the Superintending Engineer, VI Circle, in his telegram, dated 10th September 1887, to the General Superintendent, Public Works Stores.

No. 319 S.E. 5th.

Letter No. 2485, dated 15th September 1887, with enclosures, from the Superintending Engineer, V Circle, is forwarded to the Secretary to Government, Public Works Department, with the necessary certificate.

Madras, 23rd September 1887. (Signed) C. H. P. CHRISTIE, Major, R.E., Examiner, Public Works Accounts.

Enclosure.

Certificate by the Examiner, Public Works Accounts.

Number and date of indent or letter with which received.	Description and value of articles indented for.		Work and division to which the value is chargeable.	Grant. Amount.	Grant. Authority.	Certificate attached by the Examiner.
1	2		3	4	5	6
	Provincial.	£ s. d.		Rs.		
Superintending Engineer's (V Circle) letter, No. 2485, dated 15th September 1887.	Machinery, &c., required from England for the Periyár project.	3,537 10 0	Periyár Project division, tools and plant.	88,500	G.O., No. 2314 W., dated 29th August 1887.	I certify that funds to meet the outlay, which it is estimated will be incurred in England in connection with this indent during the year 1887-88, have been provided for in the estimates of the Public Works Department to the extent of £3,537-10-0.

Madras, 23rd September 1887. (Signed) C. H. P. CHRISTIE, Major, R.E., Examiner, Public Works Accounts.

Order—dated 30th September 1887, No. 2600 W., Public Works.

The indent will be forwarded to the Home Government for early compliance.

(Here enter No. 2602 W., dated 30th September 1887.)

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E., Secretary to Govt., P.W.D.

To the Chief Engineer for Irrigation.
" Superintending Engineer, VI Circle.
" " " V " "
" Examiner, Public Works Accounts.

Letter—to the Director-General of Stores, India Office, London, dated Ootacamund, 30th September 1887, Nos. 2601, 2602 W.

With reference to paragraph 2 of despatch from this Government to the Right Honorable the Secretary of State for India, No. $\frac{16}{2314 W.}$, dated 29th August 1887, I am directed to forward, for favor of early compliance, an emergent indent for machinery, &c., required for the Periyár Project lately commenced.

2. A certificate by the Examiner, Public Works Accounts, showing that funds have been provided in the estimates of the current official year, to meet the cost of the stores, is embodied in the proceedings * of Government herewith forwarded.

* No. 2600 W., dated 30th September 1887.

3. I am to invite particular attention to the request of the Superintending Engineer that the stores may be consigned to Tuticorin in time to reach that Government at the end of January 1888, so that they may be conveyed to the site of the works inland during the dry season.

(Signed) J. O. HASTED, Colonel, R.E., Secretary to Govt., P.W.D.

Endorsement—dated 30th September 1887, No. 2602 W., Public Works.

Copy of the above, with copy of the indent, forwarded to the Government of India for information.

(Signed) J. O. HASTED, Colonel, R.E., Secretary to Govt., P.W.D.

Exd. J. Moses.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of [1887] Madras.

PUBLIC WORKS.

Dated September, 30th.

Read. *Encl.*

G.O., 30th Sept. 1887, Nos. 2600
2601, 2602 W.

SEPTEMBER.

Periyar Project

Forwarding copy of letter to the Director-General of Stores with copy of indent for certain machinery, &c., required for the —.

F C' Encl to 3 of Gs. dt: 30/9/87 Gs. dt. 23/9/87.

Class. Ltr | INDIAN TELEGRAPH. | Local No 2901

To (Station) Madras | From (Station) Trichinopoly

Words	Day.	Hour.	Minute.	Official Instruction.
34/1	10	12	20	Urgd

To (Person) General Supdt public works Stores and workshops

From (Person) Supdg Engr 6 Circle

If breakers not less than twelve inches by eight. I will take them. Please omit fraction engine and waggons from indent.

Yours &c.

RECD 12 SEP 87

SEP 87

Recd. from	L. N.	Sent to	L. N.
At Hrs.	Mts., By	At Hrs.	Mts., By

Date

Telegraph Master.

MADRAS 10-9-87

15

31985

Enc: to 4 of 2nd Dec 319 [illegible]

List of Machinery for the Perak Project to be now ordered from England.

Do

		£
5	Stone breakers, Baxter's patent vertspring action, 14" × 8", with wheels ——— £150 each	900
2	Miles portable railway, steel sleepers and rails, 12 lbs to the yard, 30" gauge, including 300 ft of curved line 9 o feet radius, and about 200 of 30 feet radius ———	1,000
6	Sets right hand switches & points complete	90
6	— " — left hand ———	
6	turntables ———	40
20	Iron waggons side tipping to contain about 15 cubic feet each ———	200
10	— Do —— Do — end tipping ———	200
1	8 H.P. (Nominal) Traction Engine with crane attached to lift not less than 6 tons, to burn wood, with ~~spring~~ spring wheels and two speed, Aveling's or ~~Fodens~~ Foden's preferred.	600
6	Waggons to carry 2 tons each, for the above Engine ———	480
	Carried over ———	3,480

	Brought forward	£	3480
1	Hydraulic horse power obtain, table not less than 18" × 18" and distance between top of table when down not less than 24", with cistern and hand pumps complete		80
2	Portable hand cranes for 30" gauge to lift one ton direct with chain sufficient to reach ten feet below ground level, with holding down clips for rails, brackets &c complete		150
2	Portable hand cranes complete as above to lift half a ton direct		120
6	Bold fast Hydraulic jacks to lift four tons each		30
2	Crab winches to lift 5 tons with 2 and 3 sheave blocks, including the block and sufficient chain for a lift of 20 feet, with strong timber frames and lever brake		20
			3880
	Add for packing & freight 25 per cent		970
	Total	£	4850
	or at 1/6 per rupee =	Rs	64,671

If the prices of any of the above articles have been over estimated, or if the rate of exchange is to be taken at 2/- instead of 1/6, the following additional articles or any of them may be ordered.

2600/5

4	Cranes to lift one ton as above		300
4	— " — " — " - one half ton.		240
2	Crab winches to lift 5 tons complete as above		20
2	— " — " — " — 2 tons.		16
2	— " — " — " — 5 "		25
2	Bold fast transverse jacks 4 tons		16
2	Weighing machines for 4 ton platform 6'×4'		50
1	Semipentable vertical saw frame, 10" frame complete		190
1	General joiner complete, with materials and boring apparatus		90
			947

I am Sir
Your most obedient Servant
J. Pennell Lieutt Col R.E.
Superintending Engineer
6th Circle

Kodaikanal
20th August 1887

REC'D 1 SEP 87

15

Enclosure of Endn. No. 3195 S.D. 23/8/87.

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE.

2500/6

Kodaikanal 20th August 1887

No. 14. S. R. D. 1225

From

The Superintending Engineer,
6th Circle.

To

The Chief Engineer for
Irrigation
Madras.

Sir,

With reference to G.O. No. 498 I of 13th instant, and in continuation of the note forwarded with my No. 88. C of same instant, I have the honor to enclose a list of machinery &c which I think may be ordered from England at once, and paid for before the end of the official year.

2. The General Superintendent P.W.D. Stores should be asked to check the prices entered and to put the indent in proper form.

3. I am not sure whether the whole cost of the articles at the current rate of 1/4 = change (1/6 per rupee) should be debited against the year's Grant, or only the Cost at 2/- to the rupee, the remainder being charged to a separate head of "Cost by Exchange". If the latter be the case

15

can the debit will be reduced from
Rs. 65,471 to Rs. 48,500 - and the articles
named in the supplemental list may
be ordered.

4. The articles in question should be
despatched so as to arrive at Sukkur
before the end of January so that they
may be got to the top of the Sudalu that
may be got to the top of the Sudalu that
during the following months; this is
especially desirable in the case of the
Stone breakers which are very heavy and
will be difficult to move except in dry
weather; February is much the best month
in the year for this purpose.

5. I think the articles named in the first
list will be as much as can be ordered
at present, as in addition to the Rs. 50,000
mentioned in my former note, we can
spend about Rs. 5000 in doors and windows
and similar work for the various buildings,
which can be made Superintendent by
contract at Madura, and about Rs. 5000 on
temporary buildings in the Cumbum
and Vaigai Valleys, besides the cost of
conveyance of the machinery which
it is proposed to order now from Sukkur
to the top of the Sudalu Ghat which I

estimate

estimate approximately at Rs. 6,000.

6. This makes up a total of Rs. 66,000,
or with Establishment charges 82,170 -
which added to the proposed English
Expenditure will about make up the
total Grant of Rs. 150,000.

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

Lieut. Col. R.E.
Superintending Engineer
6th Circle.

P. W. D. 6th CIRCLE.

From

The Superintending Engineer,

6th Circle

To

The Chief Engineer for Irrign.

No. 14 P. R.

Dated 20th } August 1887.
Received

No. 164 M

Forwarded to the General Superintendent, P. W. Stores, who will submit at an early date, a special indent for the machinery required for the Periyar project for submission to the Secretary of State.

(By order)

C Anderson

Chepauk
29th August 1887 } for Asst. Chief Engr. &c.

Enclosure 1.

Submits a list of machinery to be required for the Periyar Project.

Encl. to P. Letter No. 3195 E.S. Dt. 23/9/87

Superintending Engineer's Office,

No. 2485 V Circle, Madras,

Bangalore Chepauk, 15th Sept. 1887.

From

Lt. Col. H. M. Vibart R.E.,

Superintending Engineer, V Circle,

To

The Chief Engineer P.W.D. Depty.
Thro' The Examiner P.W. Accts.

Sir,

Enclosures.

1 Indent in duplicate.
1 Abstract in duplicate.

With reference to the enclosed Endorsement No. 164 M dated 29th August 1887 from the Superintending Engineer, 6th Circle, for Irrigation, I have the honor to forward a Special Stores Indent (in triplicate) for the machinery required for the Periyaur Project Works in the Sixth Circle.

2. The rates have been calculated at two Shillings per Rupee with reference to para 4 of the Rules communicated in G.O. No. 202 dated 25th January 1886.

3

15

3. Traction Engine and Waggons have not been included in the Indent as desired by the Superintending Engineer Sixth Circle in his Telegram dated 10th September 1887 to the General Superintendent P.W. Stores.

I have the honour to be
Sir
Your Most Obedt. Servt.

Sd/- [illegible]
for E.E.
Superintending Engineer
5th Circle.

319 Encl
Sept 15
87

No. 2485

From

The Superintg Engineer
5 Circle

To

The Chief Engineer
Pr. Deptt

Thro'

The Executive Engr
Cudd Divn

Dated 15 September
Read 17 September
1887.

Peryaur Project

Forwg with
Sixth Circle

Forwards Special
Home Estimate in triplicate
for Machinery required
for the —

Endorsement No 319 dated 23rd September 1887.

Letter No 2485 dated 15th September 1887 with enclosures, from the Superintending Engineer 5th Circle, is forwarded to the Secretary to Government P. W. Department with the necessary certificate.

Wm Hunter
Major R.E.
Examiner P.W. Accounts
Madras

Encs: 8.

Ch 20/9
EP. 21/9.
23/9.

E. 6. 2314, P. 23/9/87
2233, 2234, 2235 & 2236

Superintending Engineer's letter No. 2485 dated 15th September 1887

From
Major C.M. Chevalier R.E.
Superintending & Ex. Engineer
Madras

To
The Secretary to Government
P.W. Department

Sir,

Special Store Indent for Machinery required for the Periyar Project Works ____ Forwards herewith from the Superintending Engineer's letter cited ____ with the request that ____

Enclosure: 8

B/No. 319 dated 25th September 1887

Certificate of the Public Works Accountant to Enclosure No. 8 of Endorsement No. 319 dated 25th September 1887.

Whether part of Indent or letter with which received	Description and value of articles indented for				Work and Division to which the value is chargeable	Grant		Certificate attached by the Examiner	Remarks
						Amount	Authority		
1	2				3	4	5	6	7
Superintending Engineer's (Circular) letter No. 2485 dated 15 September 1887	Provincial Machinery &c. required from England for the Periyar Project	£	s	d	Periyar Project Division No. Poolo and Plant	88,500	G.O. No. 2314 W dated 29th August 1887	I certify that funds to meet the Outlay which it is estimated will be incurred in England in connection with this indent during the year 1887-88, have been provided for in the estimates of the Public Works Department to the extent of £ 3537-10-0.	
		3,537	10						

Madras
23rd September 1887

Two

Major R.E.
Examiner P.W. Accounts
Madras.

No. 2600 [illegible]

Recd
20/9/13 P.W Dept

Proc. of the Madras Govt

Read the following :—

From the S. S. VI Circle No 4 P.R. 7722 - S. 87
Endt by Ch. S. for favn - 1624 M 29. 8. 87
from the S. S. VI Circle - 2485 M 15 - 9 87
" " Govt Noted. 3195 S.S.S., 23. 9. 87.

The indent will be forwarded to the Home Govt. for early compliance.

P.T.O. No 1007

To The Dir. Genl of Stores
India Office
London

Sir,

With reference to para 2 of despatch from this Govt.

4

P.T.O.
27 MT

To The Chief Engr for
- S.S. VI Circle
- S.S. V Circle
- Govt Dkys

to the Rev. Asst. Surg. of
No 23 Mtn. R. dated 29 August 87,
State for Sirdar, Sou Medl
& forward for favour
of [illegible] compliance, an
Indent for
machinery &c required
for the Periya Project
now being executed.

2. A certificate by
the Exec. P.W. Engineer, stating
that funds have been provided
in the estimate of the current
official year & that the
execution thereof is authorized
in the Pro. P.W.P. herewith
forwarded —

3. Sou Excellt's par-
ticular attention to the
request of the Supdt. Engr
that the Stores may be
consigned to Tuticorin,
in time to reach that port
at the end of January

Re 2600 w of 30 Septr. 1887

26/9/87 1888, so that they may be
conveyed to the site of the
works inland during
the dry season.

H.E. No 2602 w of 30 Sept 1887

Copy of the above,
with copy of the indent,
forwarded to the Govt
of India for information.

Dec
5/10/87

Jolly
26/9/87

Lee
5/10/87

7508

20-12-06

PUBLIC WORKS

Periyar Dam

30/7

30/9/

Periyar Project

Ordered that the indents for machinery required for the — be forwarded to the Government for compliance.

Periyar Project

Letter to the Director General of Stores India House forwarding for early compliance an urgent indent for machinery required for the —

Periyar Project

Forwarding copy of letter to the Director General of Stores with copy of indent for certain machinery required for the —

60/6 20/2 12/2

To collector