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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2424	Press -Mis-
116-17	
Dated 7-10-	1870.

Not to be folded or roughly handled

No. 116. Read the following letter from the Acting Consulting Engineer for Irrigation and Canal Company, to the Secretary to Government, Public Works Department, dated Madras, 12th September 1870, No. 67 :—

I HAVE the honour to forward letter from the Agent and Manager of the Madras Irrigation and Canal Company, No. 373, of the 31st August 1870, submitting a revised estimate, amounting to Rs. 62,540, for the telegraph line from Soonkasala

to Cuddapah, accompanied by an explanatory letter from the Chief Engineer, No. 1,272, dated 22nd August 1870.

2. The former sanctions for this work were by	Rs.
Government Order, No. 3,167, 23rd October 1865 ...	44,116
Do. No. 2,073, 30th June 1868 ...	5,324
Total...	49,440

and the revised estimate now submitted being, as stated above, for Rupees 62,540, the supplemental sum for which sanction is now asked is Rupees 13,100, which is made up by deducting from the total increase, namely, Rupees 17,345-8-0, the savings which amount to Rupees 4,245-8-0.

3. The increase of cost is in the following items :—	RS.	A.	P.
1. The cost of the line from Soonkasala to Hindry ...	184	8	0
2. Station stores ...	8,261	0	0
3. Workshop stores ...	6,564	9	6
4. Salary and allowances of Telegraph Engineer ...	1,157	6	6
5. Temporary line from Hindry to the Central Office, including stations and stores ...	1,178	0	0
Total...	17,345	8	0

4. The savings consist of Rupees 560-8-0 in the cost of the construction of the line from Hindry to Cuddapah, and of Rupees 3,685 allowed for risk and repair in the estimate last sanctioned,* an item which is excluded in the one now submitted.

5. Item No. 1 is simply increased cost of constructing that portion of the line between *Soonkasala* and *Hindry*, which amounted to Rupees 514 per mile, against Rupees 500-5-4 allowed in the last sanctioned estimate, the length of this portion of the line being 13½ miles. Nos. 2 and 3 are owing to the original, or the last sanctioned, estimate not having included in the value of stores the proportion of the store charges to be added thereto, which comes to about 32 per cent., and also to the number of the telegraph stations having been increased from 2 first and 6 second class, to 3 first, 3 second, and 7 third class stations; for the stores sent from England being sufficient for a greater length of canal and a larger number of stations than had been contemplated, the Chief Engineer considered it prudent to utilize them as far as he could, and also to stock the workshop and the telegraph store at Kurnool, and it will be seen from the comparative statement that there was no provision for the workshop stores in the last sanctioned estimate.

*Proceedings of the Madras Government, Public Works Department,
7th October 1870.*

The fourth item is on account of the salary of the Telegraph Engineer having been charged to that estimate for some time when the work was not going on, and there was no salary available in the sanctioned scale of establishment allotted for the Pennair Division, where the Engineer, Mr. Brunton, was deputed to do duty during that time.

The fifth and last item is simply for a temporary line and stations from the Hindry to the Central Office, for which no provision was made in the sanctioned estimate, but which is certainly necessary.

6. The Chief Engineer states that the telegraph stores received from England were more than sufficient, and, after utilizing them as far as necessary, the articles marginally noted are found to be available for sale. With the exception of these articles he adds that his present estimate provides for the cost of all the Company's telegraph stores already issued and remaining in stock, embracing those purchased in India long ago for stations and workshops; and that it includes also the cost of extra poles for road crossings, lightning conductors, Guy's, binding wire, and other such articles, some of which were overlooked in preparing the last estimate, or not provided for therein in sufficient number.

7. It appears to me that the accompanying estimate, amounting to Rupees 62,540, is complete, and provides liberally for the line of telegraph along the Company's canal for a distance of 160½ miles, inclusive of the 3½ miles of temporary line from the Hindry to the Central Office, averaging Rupees 390-14-0 per mile, and I recommend that the additional amount, namely, Rupees 13,100, now asked for, may be sanctioned.

From the Agent and Manager of the Madras Irrigation and Canal Company, to the Consulting Engineer for the Madras Irrigation and Canal Company, dated Madras, 31st August 1870, No. 373.

I HAVE the honour to forward the under-mentioned revised estimates for the construction of a line of telegraph between Soonkasala and Cuddapah, and request you will be good enough to obtain the early sanction of Government thereto.

I enclose copy of the Chief Engineer's letter, No. 1,272, dated 22nd August 1870, for information.

Estimates.

- 1 Revised Estimate.
- 1 Abstract do.
- 1 Comparative Statement.

From the Chief Engineer, to the Agent and Manager of the Madras Irrigation and Canal Company, dated Kurnool, 22nd August 1870, No. 1,272.

Telegraph Estimate.

I HAVE the honour to submit a revised estimate of the telegraph. The case is rather peculiar. The former estimate included only telegraph stores necessary for the proposed line and stations, and the prices entered for such stores was the book price; whereas I understand that the issuing price is 25 per cent. higher, and that 8 per cent. to cover store charges, etc., incurred before the stores are actually delivered for use, is not too much provision to insert in the estimate.

*Proceedings of the Madras Government, Public Works Department,
7th October 1870.*

2. The stores purchased in England and sent out here were sufficient for a greater length of canal and number of stations. After utilizing these as much as seems prudent by providing for first-class stations at each terminus, and one for repeating at Ayaloor, and for 11 other stations at Soonkasala, Pagadyal (or Ulloor), Jupad, Lockinsula, Velapanoor, Jutoor, Chintacoonta, Rajoly, Dhoor, and Adimapully, and a temporary one at Kurnool, and further furnishing a workshop and a store at Kurnool, I find that the following stores, now in Madras, may be disposed of*:-

* Your letter No. 575 of 14th ultimo.

Porcelain insulators	...	...	No. 1,000
Do. double cones	...	...	463
No. 6 wire	...	...	lbs. 93,181
" 4 "	...	...	22,421
Alphabetical Telegraph instrument	...	...	No. 2

3. Needle instruments are at present in use, but the Company is bound to use the kind of instruments used on Government telegraph lines: four answer this description I believe,† and I propose to leave them in the workshop store. In the present estimates I have included, to the

† If not ten.

best of my belief, the cost of all the Company's telegraph stores issued and unissued, except the four first items of the list above given for sale. I have included the cost of extra poles for road crossings, or for replacing any accidentally broken in the prime cost of the mile; also lightning conductors, Guy's, binding wire, and other matters, some of which seemed to have been overlooked before. At present the whole line wants tightening, the wire requires tying on to all the insulators; some poles in bad ground require further securing; and I have endeavoured to include the cost of soldering all the joints which, I think, is desirable on so small a wire (No. 6).

4. The expense of the line hitherto I estimate as follows from the progress certificate of 31st May last:-

	RS.	A.	P.
Cost of the line exclusive of Engineer, including contingencies.	34,506	12	8
Deduct stores as per estimate for stations, with 33 per cent. added	4,289	0	0
Cost of construction	30,217	12	8
Available by estimate for repairs	3,541	10	0
Total...	33,759	6	8

My present estimate is—	33,251	7	0
Cost of line	3,328	9	0
Contingencies	Total...	36,580	0 0

5. My estimate, to cover cost of stores long ago purchased for the stations and workshop and store, and few additional ones, such as lightning guards, not yet provided in sufficient number, is Rupees 19,552-9-6, making, with Rupees 36,580 and 6,407-6-6 for the Engineer, the total now asked for of Rupees 62,540. The excess paid for engineering is, I believe, you will find accounted for by the fact that arrangements could not be made for letting the contract to cut poles in the dry season of 1868, the sanction being dated 30th June 1868; and on the then system of sanctioned staff, there was no available salary sanctioned to the Pennair Division, to which Mr. Brunton was appointed to act; so that he continued to be charged to the telegraph staff while doing duty in Pennair Division in the hot season of 1868.

6. The Henley Galvanometers work very well as needle instruments, and so obviate the necessity of spare needle instruments at first-class stations. I have included the iron standards now in Madras. They would not sell well probably, and I think may be gradually used upon the line near Cuddapah.

The increase of cost is in the following

Proceedings of the Madras Government, Public Works Department,
7th October 1870.

No. 117.

ORDER THEREON, 7th October 1870, No. 2,424.

IRRIGATION, No. 13.

It is observed that in the revised estimate submitted with this letter the bulk of the increase over the amounts already sanctioned is on Items 2 and 3 for "Station stores" and "Workshop."

2. In paragraph 5 the Acting Consulting Engineer states that the extra expenditure is in a great measure caused by the increase in the number of telegraph stations from 2 first, and 6 second class, to 3 first, 3 second, and 7 third class stations, that is, from 8 stations at first contemplated to 13; but no reason is given for these additions which not only involve a charge for construction but also for maintenance and establishments.

3. Before passing final orders on the estimate the Government desire to be furnished with more complete explanations than have already been rendered on the points above noticed.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Acting Consulting Engineer for the Madras Irrigation and Canal Company.

Exd. S. T. Augustin

Enclosures
Letter in one from Agent
1 Revised estimate
1 Abstract
1 Comptroller

Consulting Engineer's Office
Irrigation and Canal Company
Madras, 12th Sept 1870

No. 67.
Sir,
Colonel Campbell
Deputy Engineer for I.C.C.
The Secretary to Government
Public Works Department

I have the honor to forward letter from the Agent and Manager Madras Irrigation and Canal Company N^o 373 of the 31st August 1870 submitting a revised estimate amounting to Rupees 62,540 for the Telegraph Line from Somkavalu to Cuddalore accompanied by an explanatory letter from the Chief Engineer N^o 1272 dated 22nd August 1870.

2. The former sanctions for this work were by Government Order N^o 3167-23rd Oct/65 Rs. 44,116-
and by Order N^o 2073-30 June/68 Rs. 5324-
Total Rs. 49,440

and the revised estimate now submitted being as stated above for Rupees 62,540 the supplemental sum for which sanction is now asked is Rupees 13,100 which is made up by deducting from the total increase viz. Rupees 17,345-0-0 the savings which amount to Rupees 4,245-0-0.

3. The increase of cost is in the following items:

1. The cost of the Vine from Sontkalavala to Hindry } 184-0-0
2. Station stones } 8261-0-0
3. Workshop } 6564-9-6
4. Salary & allowances of Telegraph Engineer 1157-6-6
5. Temporary line from Hindry to the Central office including station stones } 1178-0-0

Total 17345-0-0

4. The savings consist of Rupees 560-0-0 in the cost of the construction of the Vine from Hindry to Cuddapah and of Rupees 3685 allowed for visit and repair in the estimate last sanctioned an item which is included in the one now submitted. vide G.O. No. 2073-30 June/60.

5. Item No. 1 is simply increased cost of construction that portion of the Vine between Sontkalavala and Hindry which amounted to Rupees 514 per mile against Rupees 500-5-4 allowed in the last sanctioned estimate the length of this portion of the Vine being 13 1/2 miles. Nos 2 and 3 are owing to the original or the last sanctioned estimate not having included in the value of stones the proportion of the stone charges to be added thereto which comes to about 32 percent and also to the number of the telegraph stations having been increased from 2 first and 6 second class to 3 first, 3 second and 7 third class stations; for the stones sent from England being sufficient for a greater length of canal and a larger number of stations than had been contemplated the Chief Engineer considered it prudent to utilize them as far as he could and also to stock the workshop and the Telegraph store at Turnool, and it will

be seen from the Comparative Statement that there was no provision for the workshop stores in the last sanctioned estimate.

The 4th item is on account of the salary of the Telegraph Engineer having been charged to that estimate for some time when the work was not going on and there was no salary available in the sanctioned scale of establishment allotted for the Purnea Division where the Engineer Mr. Branton was deputed to duty during that time.

The 5th and last item is simply for a temporary Vine and stations from the Hindry to the Central office for which no provision was made in the sanctioned estimate but which is certainly necessary.

6. The Chief Engineer states that the telegraph stores received from England were more than sufficient and after utilizing them as far as necessary the articles marginally noted are found to be available for sale. With the exception of these articles he adds that his present estimate provides for the cost of all the Company's telegraph stores already issued and remaining in stock embracing those purchased in India long ago for stations and workshops and that it includes also the cost of extra poles for road crossings, lightning conductors, Guy's, binding wire, and other such articles, some of which were overlooked in preparing the

Porcelain insulator No. 2000
with Double cones 463 = 22421
No. 6 wire 03/93/81
4-0-0

the last estimate or not provided for therein in sufficient number.

7. It appears to me that the accompanying estimates amounting to Rupees 62,540 is complete and provides liberally for the line of telegraph along the Company's Canal for a distance of $160\frac{1}{2}$ miles inclusive of the $3\frac{1}{2}$ miles of temporary line from the Hindry to the Central office averaging Rupees 390-14-0 per mile and I recommend that the additional amount viz. Rupees 13,100 now asked for may be sanctioned.

I have the honor to be,

Your most obedient servant,

Yr. humble servant. Col. H. C.

For the Secy to the Company.

C. M. B.

10.11.10 pp. ext.
 From the off. of the Secy for the
 The C. & G. S. Co. No 3620
 The Secretary of Govt. P.W.D.

Dated 12th } Ept 11/70.
 Recd: 14th }

Encs: 45⁺
 3 sent as per. Misc. 10-10-70-1075
 Submits for the sanction
 of Government a revised es-
 timate amounting to Rs 62540
 for the Telegraph Line from
 Sontkiasala to Cuddapah.

No 2424 - 7-10-70

No 116

Recd for 16 Oct 17. 24th Sept 12. 26th

Public Works Department

No 2424

Proceedings of the Madras Government

Under date 5th Oct 1870

Recd the following

From The Asst. Comm. Engrs for } H.E. No 5712th Sept 1870/
 S.C.C. —

It is observed that
 in the revised estimate
 submitted with this
 letter the bulk of the
 increase over the amount
 already sanctioned is
 on items 2 and 3 for
 "Station Stores" and
 "Workshop".

In para 5 the
 Acting Comm Engineer
 states that the extra
 expenditure is in a great
 measure caused by the
 increase in the number
 of

of Telegraph Stations from
2 first, and 6 second
class, to 3 first, 3 second,
and 7 third class stations,
that is, from 8 stations
at first contemplated
to 13; but no reason
is given for these addi-
tions which not only
involve a charge for
construction but also
for maintenance and
establishments.

Before passing
final orders on the
estimate the Government
desire to be furnished
with more complete
explanations than
have already been
rendered on the points
above

above noticed.

Cable

L

The Comd Engineer for the
M. I. & C. Co. ✓

Recd 8/2/70

Proceedings of the Madras Government

Under date the following

From The Asst Engineer for L.C.C. / S. C. No 673/12th Sept 1791

In Pro. of Govt. No 3167
and 2073 of the 23rd October 1865,
23rd Oct. / 65 Rs 44116 and 30th June 1866 respectively
30 June / 65 Rs 8324

Total Rs 49440
sanction was accorded to esti-
mates amounting in the ag-
gregate to Rs 49440 for erecting
a line of telegraph from Poon-
Kasala to Puddupah in con-
nection with the Madras Im-
perial & Canal Company's
main line.

The Acting Secretary
Engineer now submits a second
revised estimate of Rs 62540 show-
ing an excess of Rs 13100 or 26.5 per cent
upon the total of the amounts
already

He held the
in view of the
for Station Slaves
letter for C. (under the
that the extra expenditure in respect
part caused by the increase in the number
of telegraph stations from 2. first & 6
second class stations to 3 first and 3 second
and 7. third class
stations that is for
8 stations at first contemplated
to 13. I do not see any reason why
for this increase which not only
increases a charge for construction
but also for maintenance
and also for maintenance
for an explanation before
sanctioning the estimate

N.

already sanctioned.

The increase in
estimated cost of the
following items:

1. The cost of the line from Sonkasala
to Hundry } 184. 8...

Station floor } 826. . .

Post Office } 6564. 9. 6

Salary and allowance of Telegraph
Engineer } 2157. 6

Temporary line from Hundry to the central
Office, including stations and stores } 1170. . .

Total 17325. 8

Less the sum of Rs. 225. 8. which
represents savings on items in
previous estimates.

The Government are
disappointed to find that the
revised estimate, which was
approved in Dec. of the 30th
June 1884 & 20th was framed
on so unreliable a basis as
to require to be supplemented
by

by so large a sum as Rs. 13,100
in order to admit of the work
being carried out to completion,
but on the distinct assurance
of the Acting Consulting Engineer
that the amount now ap-
plied for includes provision
for all the requirements of the
line, and in accordance with
Colonel Parpendale's recommen-
dation, His Excellency in Council
sanctions the revised estimate
submitted with the letter above
recorded.

W. E.

The Actg. Comdg. Eng^r for the
M. L. E.
Agent & Manager - do

C/3620

Govt. of {1870} Madras.

PUBLIC WORKS.

To *The Ag. Consulting Engrs.
for the Madras Irrigation
and Canal Company.*

Dated

Recd.

Encl. 5

G. O. *2424*

Nos. 116-117

Telegraph Line *Reporting*
order in the letter from the
Ag. Engrs. for the Madras
Co. submitting a re-
vised estimate of Rs. 2,540
for the Telegraph Line
from Sijikavali to
Cuddalore.