

(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.	193	Press
397 to 402.		Mis.
Dated	21-1-	1873.

Not to be folded or roughly handled

193-94
21.1.73

12-1

*Proceedings of the Madras Government, Public Works Department,
21st January 1873.*

Read the following papers :—

No. 397. From the Deputy Secretary to the Government of India, Public Works Department, (Irrigation,) to the Acting Joint Secretary to the Government of Madras in the Public Works Department, Irrigation Branch, dated Simla, 7th June 1872, No. 442-I.

E.K.
I am directed to acknowledge the receipt of your letter No. 1,180 of the 8th ultimo, submitting for sanction an estimate, amounting to Rupees 6,740, for repairs during the four years ending December last to the main reservoir, called the Survapully Tank, and proposing to allot the amount from the Reserve under Agricultural of the current year.

2. In reply I am to state that, in the absence of some further explanation, the proposal cannot be dealt with. It is not certainly known whether the whole amount of the estimate is for repairs to the old work now being improved, and whether a portion is for repairs to new irrigation works, but it seems as if the whole amount should be charged to Revenue and provided for from the ordinary grant. Under Circular No. 52 of 1871, the former would be chargeable to Revenue and the latter also, if the work is in operation and is earning Revenue. But it is to be observed that the conversion of the Survapully Tank into a main reservoir is only one of the works comprised in the scheme for improving and extending the Pennair Project, sanctioned in this office letter No. 43-I. of the 12th March 1868, and it is desirable, therefore, that a complete estimate should be submitted for repairs to all the works embraced in that project, pending their completion, in preference to the submission of detached estimates. This estimate should not include the cost of repairs to the old works or works not earning revenue which, as before mentioned, must be defrayed from revenue or the ordinary grant.

3. Referring to your endorsement No. 822 of the 23rd March last, I am to notice that, in the progress report of "Extraordinary" Irrigation works forwarded therewith, the sanctioned estimate of the scheme for the improvement and extension of the Pennair Project is stated to amount to Rupees 4,20,060, whereas the estimate submitted to, and passed by the Government of India, in letter No. 43-I. of the 12th March 1868, amounted to Rupees 4,12,100 only. I am to request an explanation of this discrepancy, and to state that, if the estimate sanctioned by the Government of India is likely to be exceeded, a revised estimate must at once be framed and submitted to this Government for sanction.

4. The estimate received with your letter is herewith returned.

No. 398. Memorandum from the same Officer, dated Simla, 12th October 1872, No. 442-I.

THE undersigned has the honour to invite attention to this office letter No. 442-I. of 7th June last, calling for a revised estimate for the Survapully Tank Project to include repairs pending completion of works and to request that its submission be expedited.

(Signed) F. H. RUNDALL, Colonel, R.E.,
Offg. Dy. Secy. to the Govt. of India.

*Proceedings of the Madras Government, Public Works Department,
21st January 1873.*

No. 399. From the Superintending Engineer, 2nd Division, to the Chief Engineer for Irrigation, dated Camp at Masulipatam, 6th May 1872, Extra No. 2.

I HAVE the honour to report that we are unable to carry on the pitching of the slopes of the Survapully channel at even the terms allowed by Major Mullins in paragraph 9 of his report No. 35 of 9th February 1871.

2. The channel was originally cut many years ago, and the excavated earth was put far too near to its edge; now that it has been widened, the slope of channel and embankment are almost continuous, and the pressure of the latter on very poor slippery soil has thrust the foot of the former back into the bed and interferes constantly with the water-way.

3. The soil, moreover, is full of water, so that great difficulty is found in digging the trench half a yard below the proper bed of the channel; for the foundation of the stone pitching the estimate made no allowance for this excavation at all, and it is, under present circumstances, a really heavy charge, as all the earth must be carried beyond the old spoil bank. From actual work executed we have in the first length of 212 yards incurred charges at the rate of Rupees 3-7-0, 3½ per cubic yard of pitching; the bed is very uneven and in some places we shall have to remove 5 feet of silt; Major Clay, therefore, enters Rupees 3-8-6 as the cost per yard on an average.

4. There are 24,790 cubic yards to be done which will cost Rupees 87,540, at Rupees 3-8-6 per cubic yard instead of 40,284 Rupees at Rupees 1-10-0,* or, if we take one side only as proposed by Major Mullins, Rupees 32,537 will be required. I am, however, by no means clear that we can leave the channel with only one side protected, and fear that ere long we shall be obliged to remove the spoil banks further back. It would probably be better economy to do so at once.

No. 400. From R. SMITH, Esq., Officiating Superintending Engineer, 2nd Division, to the Acting Chief Engineer for Irrigation, dated Bezwarah, 20th November 1872, No. 134.

As directed in your memorandum No. 118 of 4th July last, I have the honour to submit an estimate, amounting to Rupees 16,000, for the repairs and maintenance of the Survapully Project works during construction.

2. In addition to the actual outlay shown in the second column, Rupees 1,861-4-6 appear to have been expended, as annexed, and charged to "Repairs Ordinary."

	ES.	A.	P.	ES.	A.	P.
Clearing silt and filling breaches in the Idagali channel, 1869-70	...	...	...	227	0	0
1870-71	...	...	...	15	3	0
1871-72	...	...	...	137	7	6
Clearing silt in the old Ramareddi channel, 1870-71	...	...	...	379	10	6
Clearing silt in the Idagali and Pudiparti channels, 1871-72	...	...	...	1,264	9	0
Repairing and filling ground in rear of the masonry works of the Idagali and Pudiparti channels	...	...	...	38	1	0
Total...	1,861	4	6			

*Proceedings of the Madras Government, Public Works Department,
21st January 1873.*

3. With reference to paragraph 3 of your communication under reply, I beg to state that, with the exception of an extra allowance for compensation for land and for pitching the side slopes of the Survapully Channel, I do not think the sanctioned estimate will be exceeded.

4. The additional sum required for the items alluded to will be reported as soon as all the information regarding the land has been received from the Revenue Authorities.

No. 313.

No. 401. *Note by the Chief Engineer for Irrigation.*

THE Circular of the Government of India on the incidence of charges for repairs and maintenance of works, buildings, etc., on portions of canals not earning revenue having been communicated to Superintending Engineers, the Superintending Engineer, 2nd Division, on the 5th April last, transmitted an estimate, amounting to Rupees 6,740, showing the amount which had been expended on the Survapully reservoir repairs and charged to Capital; but which, under that

8th May 1872, No. 1,180.

* No. 442-I. of 7th June 1872.

circular, should form a separate item of the project. This estimate was submitted to the Government of India, who, in reply, called* for further information, and requested that a complete estimate for repairs to all the works embraced by the Survapully Project, of which the reservoir is one item, might be prepared; with reference also to a discrepancy between the amount† quoted as the sanction for the project, and that‡ named in the original sanction, they desired to be informed whether the estimate would be exceeded and, if so, that a revised estimate should be submitted for sanction.

The difference between the two sums is due to the sanctions of this Government as per margin, the former being for closing the centre set of under-slucies in the Pennair anicut, and the latter the difference between the sanctioned and revised estimates for the Stonehousepetta bridge across the Survapully canal.

2. The Superintending Engineer was requested, in transmitting a maintenance estimate for the works included in the sanction, to report whether a revised estimate for the project generally would be required. In May last the Superintending Engineer reported that the pitching of the Survapully canal could not be

executed for the amount allowed. The original rate allowed was Rupees 1-2-0 the cubic yard. When I inspected the works at the end of 1870, the insufficiency of this rate was brought to my notice; and, in communication with the Executive Engineer, I decided that laterite was the proper material to be used, and that Rupees 2-2-0 would be a fair rate. The rate

NOTE.—Paragraph 9, G. O., 24th February 1871, No. 544.

*Proceedings of the Madras Government, Public Works Department,
21st January 1873.*

now reported as necessary is Rupees 3-8-6, some work having been executed at Rupees 3-7-0. The Acting Chief Engineer, in reply to this letter, pointed out that the quantity of work to be done had been mis-stated, and that no details of the rate

No. 83, 30th May 1872.

reported to be necessary had been given, and the Superintending Engineer was requested to look carefully into the matter and to report exactly what was required. It may be noticed here that, from paragraph 3 of the Superintending Engineer's letter, it would seem that the removal of some 5 feet of silt had been included in the enhanced rate for the pitching, and this is evidently altogether foreign to the work in question, and should be provided for separately under maintenance.

The Superintending Engineer was further enjoined to go over the whole project on his next visit to Nellore; to report what work had been completed; what savings, if any, had been effected; and what sum would be required to complete the works.

3. The Officiating Superintending Engineer has recently* forwarded a maintenance estimate, amounting to Rupees 16,000, for all the works

* No. 134 of 20th November 1872.

included in the project, and he explains that, in addition to the sum shown in this estimate as actually expended, there have been spent Rupees 1,861-4-6 out of the allotment for Agricultural Repairs Ordinary on certain works.

This Officer further reports that, with the exception of an extra allowance for compensation for land and for pitching the slopes of the Survapully canal, he does not think that additional sanction will be required.

4. Mr. R. Smith, who has been officiating as Superintending Engineer, 2nd Division, has recently been appointed District Engineer of Nellore, and will join in the course of a few days. He prepared the sanctioned estimate for this project, and I think it will be advisable that he should examine the works carefully and thoroughly, and then forward a revised estimate with explanations of all modifications which may be found necessary. I would not recommend, moreover, the submission of the maintenance estimate to the Government of India for sanction until it has been examined by Mr. Smith on the spot; and that Officer should, I think, be instructed to distinguish between expenditure under this head, due to the use of the works for irrigation, and that due or required for the purposes contemplated in the circular of the Government of India. Many of the works have been in use all along and much, therefore, of the maintenance outlay is, in my opinion, properly chargeable to Revenue.

FORT ST. GEORGE, (Signed) J. MULLINS, Lieut.-Colonel, R.E.,
11th December 1872. Chief Engineer for Irrigation.

No. 402. ORDER THEREON, 21st January 1873, No. 193.

IRRIGATION, No. 36.

ORDERED that these Proceedings be communicated to the District Engineer of Nellore, who will act in conformity with the instructions contained in the Note by the Chief Engineer for Irrigation,

*Proceedings of the Madras Government, Public Works Department,
21st January 1873.*

and submit as early as he may be able a revised estimate for the Survapully Project, as also a maintenance estimate for such work as has been, or will have to be, executed for the up-keep of works or portions of works prior to their being brought into use. Expenditure on the maintenance or repair of works in use should, from the date of their being so employed, be met from the grant for Repairs Agricultural under Ordinary. Probably the Survapully reservoir and perhaps some other works will require, in this latter respect, to be treated specially, because though in use during the progress of the works, the maintenance of the large addi-

G. O., 27th September 1871, No. 2,464.

tions would be properly chargeable under Circular No. 52 of the Government of India.

2. Ordered also that a copy of these Proceedings be forwarded to the Government of India with the following letter:—

(Here enter No. 194, dated 21st January 1873.)

(True Extract.)

(Signed) J. MULLINS, Lieut.-Colonel, R. E.,
Joint Secretary to Government.

To the District Engineer, Nellore.

„ Chief Engineer for Irrigation.

„ Controller of Public Works Accounts.

Exd. E. C. Shunker.

Vellore District
Survapully Project
 Estimate of the probable sum required for the maintenance of the several works during
 Construction.

Sections	Actual expenditure on repairs up to 31 st December 1871	Probable sum required for repairs from 31 st December 1871 to completion of works	Total amount for which sanction is solicited	Remarks.
	Rupies	Rupies	Rupies	
Survapully Reservoir	5,397	6,143	11,540	* Rs. 1343 of this sum were included in the estimate amounting to Rs. 6740 submitted on the 5 th April 1872. Videly Oct 1179 of 8 th May 1872.
Main ducts of Spurn and Pudipurtty Channels	"	80	80	
Deepening Survapully new cut and improving old Ramreddy Channel	"	3,350	3,350	
Deepening Main Feeder	"	250	250	
Main duct of Idagali branch channel	"	50	50	
Distribution Channels of Vallur branch	"	30	30	
Survapully High Level Channel	"	100	100	
Main Drain	"	250	250	
Improving old drain from Pottempady to Kurbalanitta	"	150	150	
Lundries	"	200	200	
			16,000	

Supg Engrs Office Secy
 Begumabad 20 November
 1872

Gmtr
 Off. Supg Engrs Secy

No. 134. Superintending Engineer
Office 2nd Division
Bengal
20th November 1872

From

R. Smith Esquire
Offg. Superintending Engineer
2nd Division
Major R. F. Oakes R.E.
Acting Chief Engineer
for Irrigation

Sir,

As directed in your Memorandum,
No. 118 of 4th July, last, I have the
honour to submit an estimate, amounting
to Rupees 16,000, for the repairs and
maintenance of the Surmafully Project
works during construction.

2. In addition to the actual outlay,
shown in the second column, Rs. 1861.4-6
appear to have been expended, as
annexed, and charged to "Repairs
Ordinary"

Clearing

Enclosed in a
letter No. 134 of 20th Nov.
1872 from the Supg. Engr
2nd Division to the
Chief Engineer for
Irrigation -
1/11/72

These estimates
Surmafully Project
Estimate of the probable
sum required for the
maintenance of several
works during construction
Rs. 16,000.

P. No. 1212/72.

Clearing silt and filling breaches
in the Idagali Channel.

1869-70	227-0-0
1870-71	15-0-0
1871-72	137-7-6
	379-10-6

Clearing silt in the old Ramariboi
Channel - 1870-71 — 180-0-0

Clearing silt in the Idagali and
Pudiparti Channels - 1871-72 — 1263-9-0

Repairing and filling ground in
rear of the masonry works of the
Idagali and Pudiparti
Channels — 38-1-0

1861-4-6

3. With reference to paragraph 3,
of your communication under reply,
I beg to state that, with the exception
of an extra allowance for compensation
for land, and ^{for} pitching the side
slopes of the Survapully Channel,
I do not think the sanctioned
estimate will be exceeded.

4. The additional sum required,
for the items alluded to, will

16-67
be reported as soon as all the
information regarding the land, has
been received from the Revenue
authorities.

I have the honor to be

Sir,
Your most obedient servant,

G. Smith
Offg. Sup. & Engineer at Sec.

1400

8. Mr. 6212/42

1883-1884

35-887
 Conf. Sec. of State
 1888
 The City of New York
 21st Dec
 To the Chief Engineer
 for Navigation
 dated 20 November 1888
 Received. 27-
 35-887
 Enclosure 1

Submits an Estimate
for Purchase 16000 for
Repairs and Maintenance
of the Manufacturing
Department in order to
clearing construction

Debarred Estimate
1st & 2nd St. Elmo Range
Work. Repairing Sirrapalli Fault land
filling slips. & caused by late Heavy Rains.

Particulars	Measurements			No	Contents.
	L	B	D		
Repairing the bund during last 4 days.					56260
Repairing Mangalah.					
Repairing damage caused by late heavy rain.					
Filling slips in 7 th & 8 th Falls as per Pit Measurements.					3069
Surfing above.	41 1/2	7 3/4	-	-	318 3/4
	18	10 1/2	-	-	189
Slips in 10 th Fall	20	3	1	-	60
Surfing	20	1 1/2	-	-	30
Slip in — do —	30	3	1	-	90
Surfing	30	1 1/2	-	-	45
Bund across pits in manglah	80	3	1	-	240
Slip in 14 th Fall.	20	2	3/4	-	30
Surfing	20	1	-	-	20
Slip in — do —	15	3	1	-	45
Surfing	15	1 1/2	-	-	22 1/2
Bund across pits in mang.	100	3 1/2	2	-	700
Slip in 17 th Fall	9	7	1/2	-	28 1/2
Surfing	9	3	-	-	72
Slip in 18 th Fall	20	6	1	-	120
Surfing	20	8	-	-	160
Slip in — do —	18	6	1	-	108
Surfing	18	7	-	-	126
Slip in 37 th Fall	114	12	1 1/2	-	2052
Surfing	114	12	-	-	1368
Bund across pits in mang.	100	3	1 1/2	-	450
Slip in bank across the supply ch.	72	6	2	-	864
Surfing	72	7	-	-	504
Slip near Kuitapalli	60	3	1	-	180
Surfing	60	3	-	-	180
Slip — do —	30	2	1	-	60
Surfing	30	2	-	-	60
On front slope	250	1	1/2	-	125
Surfing	250	1	-	-	250
Manspanning top of bund	5940	3	1/2	-	2970
Minor					70770

Abstract Estimate 14-8

1st - Nelson Range 1st

Work. Repairing Surpalli Fault lands filling slips
Caused by late heavy rains.

Quantity	Description	Rate	Amount	Total
56269	Repairing the land during the last 4 years.			
59200	Cyds of Earthwork	Average 1 1/2	50877 2	Nearly the estimate
	Repairing Calingulals		2109	
	Repairing Damages Caused by late rains.			
1445	Cyds of Gravel in 7' 8" Falls	3	270 150	✓
1625	do do & Earth do	2	203 20	✓
5155	do of Earthwork	16	483 46	✓
2970	do of do	20	371 40	✓
3345	Spots of Turfing	6	104 86	✓
	Lup & Under		228 61	
	Total Estimate Proper			6740

Remarks - The slips in this fault land were caused by late rains. In several falls more than two-thirds of the land, slipped, leaving the Riverbank & Earth below standing. The Earth to fill in the slips in 7' 8" falls had to be carried on an average distance of from 150 to 240 yards and through water 2 1/2 ft deep, the soil was gravel for which 0-3-0 and 0-2-0 per cyd are allowed. For the other slips earth had to be carried a distance of 100 yards (average) through water 3 ft deep. The above remarks refer to turfing & the rate of 0-0-6 per cyd is not too much for it.

Camp Maltukura }
18th January 1872 } Alex. J. Allen Esq
Representing Engineer

Herbert Collett
Supt Engr 2nd Division
Supt Supt Office
Belgaum
1st April 1872

Proceedings of the Madras Government
Read the following:-

From,

The Government of India - (H. E. No. 442 D. 7 June 1912)

" " " " " 442 D. 12 July 1912
" Chief Engineer for Irrigation " " " 313 D. 17 Dec 1912

Ordered that
these Proceedings be com-
municated to the Dis-
trict Engineer of Nellore,
who will act in conformi-
ty with the instructions
contained in the Note
by the Chief Engineer
for Irrigation, and sub-
mit as early as he
may be able a revised
estimate

RM

Enclosure and
Letter No 2 of 5th
April 1892 from
the Chief Engineer
to the Government
for Irrigation
Madras
1/24/12
per 6212/12

442 I, dated 7th June last,
from the Deputy Secretary
to the Government of
India, to transmit a
Copy of the Proceedings
of this Government under
date the Instant, No.,
and to state that a further
report on the Survaipully
project, together with the
estimates called for, will
be submitted as early as
may be practicable.

4.11.12 13/12/72

193

Recd 23/1/73 with 700
740 193 of 1873