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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No.	2154	Press
1218-149150		Mis.
Dated	10-9-	1872.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
10th September 1872.*

Read the following papers:—

No. 148. From the Acting Superintending Engineer, 1st Division, to the Secretary to Government, Public Works Department, dated Dowlaishweram, 25th July 1872, No. 1,560.

Q.5
I HAVE the honour to acknowledge receipt of G.O. of the 10th July 1872, No. 1,663, and regret very much the Government should be so dissatisfied with the Kondakirla Ava Project as submitted to them, but I made no pretension to submit the scheme as a complete project, having personally inspected the locality and ascertained the feasibility of this part of the work, and the probability of the water-supply being sufficient. I urged the Collector to send up the project for increasing the store of water to save the remissions now annually granted to the villages irrigated by the Soradanuddi, leaving out for the present the cutting of the new channel to bring more land into cultivation until proper surveys and levels could be executed. I took upon myself the responsibility of recommending the scheme in an incomplete form to save present loss, having satisfied myself that this could be effected, leaving the more extended scheme for the new lands to be matured as soon as I could obtain the services of a Surveyor and get funds to pay for the necessary excavations.

2. I beg to observe with reference to the Acting Chief Engineer's note, paragraph 4, the co-efficient of .86 used by me is not high for sluices with side walls approached by water having a great velocity as it has in all these large jungle streams with bed falls varying from 10 to 15 feet per mile; the co-efficient .625 used by Major Oakes is for still water and for narrow openings in lock gates, etc.; under any circumstances with such sluices .82 would not be too high a co-efficient to employ, which is the same as the late Major Ryves always used for the sluices here, and then the quantity of water, as calculated by me, would not be so much less as it is said to be; no registers had ever been maintained at this anicut until I had some kept in 1871, but even these had not been properly registered, the back water not having been noted. I was, therefore, obliged to approximate as well as I could with such information as I could obtain; the water is being properly registered now.

3. As Mr. Turner can do no work on the Jeypore Ghaut at this time of the year, I have directed him to complete this project, and will submit it as soon as I can get the thing together; but in the mean time I beg the estimate for raising the bund may be sanctioned at once to secure the revenue from lands liable to require remissions in the event of any failure of the rains in October or November all our registers showing that in those northern districts the supply of water from the south-west monsoon is far more reliable than that of the north-east monsoon, and therefore great losses can be prevented wherever these can be stored as in this locality to mature crops already only partially irrigated.

No. 165.

No. 149. *Note by the Acting Chief Engineer for Irrigation.*

In Mr. Laskey's letter No. 15, dated 11th April, to the Superintending Engineer of the 1st Division, he states that no remissions were granted to lands under

*Proceedings of the Madras Government, Public Works Department,
10th September 1872.*

channels supplied by the Ava, but that remissions were granted to the extent of Rupees 17,970-10-6 on lands dependent upon the river channels. The Collector estimates the remissions at Rupees 19,816-5-10. The area dependent upon the Kondakirla Ava tank is 1,289 acres; for this area, including loss by evaporation, 10 millions of cubic yards of water would be sufficient, while the capacity of the tank is stated now to be 19 millions.

2. The object of increasing the capacity of the Kondakirla Ava tank is in order to supplement the supply to the channels which are taken from dams in the Soradanuddi, situated below the Goda anicut from which the Kondakirla Ava tank is supplied; but as far as can be judged from the papers submitted, it would appear that to admit of water being conveyed to the river from the tank it is necessary that a new channel should be excavated, and as the Superintending Engineer himself stated that he doubted the accuracy of the levels taken, and as a portion of the channel was said to require a cutting 45 feet in depth, and it had not been ascertained whether the cutting would pass through soil or rock, and hence its probable cost could not be estimated, I stated in my note dated 20th

In G. O. No. 1,663 of 10th July. June, that, in my opinion, the raising of the tank bank should not be undertaken till the project had been properly matured.

3. The Superintending Engineer in his letter No. 1,560, dated 25th July, justifies himself for submitting the project in an incomplete form, on the plea that he had ascertained that the capacity of the Kondakirla Ava tank could be increased, and that a supply of water was available, by means of which the crops dependent upon the Soradanuddi might be saved, and the annual remissions be rendered unnecessary, and that he purposely omitted the 'cutting of the new channel to bring more land into cultivation.' From this it may be inferred that the cutting of the new channel is necessary for the proposed extension of cultivation only, but judging of the locality from the map it would appear that the new channel is necessary to admit of the existing cultivation obtaining a supplemental supply from the Kondakirla Ava tank, and if so the capacity of the tank should not be increased until the estimate for the channel has been completed.

4. The estimate for the tank bank has not been prepared as it should have been, and is unintelligible without the sections, and it is impossible to ascertain from the estimate what is to be the section of the bank when completed.

5. With regard to the Superintending Engineer's remarks relative to the co-efficient used by him, it is only necessary to observe that that co-efficient is applicable to open vents such as those of small bridges, but for submerged vents a co-efficient of .625 is by no means too low.

6. If Mr. Turner's services are available he could not be better employed than in completing the investigations required relative to the Kondakirla Ava Project.

OOTACAMUND,
21st August 1872.
(Signed) R. F. OAKES, Captain, R. E.,
Acting Chief Engineer for Irrigation.

*Proceedings of the Madras Government, Public Works Department,
10th September 1872.*

No. 150. ORDER THEREON, 10th September 1872, No. 2,154.

IRRIGATION, No. 8.

THE Chief Engineer for Irrigation will have been informed by G. O. No. 1,958 of 17th August, that the services

of Mr. G. J. Turner are already available for any Irrigation Project that he may approve; and there will be no objection to such services being extended over a period sufficient to complete the investigation of the Kondakirla Ava Project, as with the assistance of Mr. Surveyor Fletcher, Mr. Turner's duties in connection with the Jeypore Ghaut may be carried out by occasional visits to that work.

2. The Chief Engineer for Irrigation should now place himself in direct communication with the Superintending Engineer of the 1st Division, and when necessary with Assistant Engineer Turner, and satisfy himself as to the points regarding which he seems to require further information.

3. Having obtained which, he will proceed to lay down such instructions for the elaboration of the project as may be requisite. The Superintending Engineer will take care that these instructions are carried out both as regards the co-efficient to be used in calculating discharges and in all other details.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Acting Superintending Engineer, 1st Division.
,, Acting Chief Engineer for Irrigation.

Exd. E. C. Shunker.

No. 1560

From

Resubmit. Col. R. S. Nichol R.E.
Sept 26
 Superintendent Engineer

1st Division

To

Colonel G. D. Walker R.E.
 Secretary to Government D. P. W.

SIR,

MADRAS

I have the honor to acknowledge receipt of G.O. of the 18th July 1872 No. 1663, and regret very much the Government should be so dissatisfied with the Ronda Kilala Ara project as submitted to them, but I made no pretension to submit the scheme as a complete project, having personally inspected the locality and ascertained the feasibility of this part of the work, and the probability of the water supply being sufficient. I urged the Collector to send up the project for increasing the store of water to 2 and the remissions now annually granted to the Villages irrigated by the Saradanaddi, leaving out for the present, the cutting of the new channel to bring more land into cultivation until proper surveys and levels could be executed. I took upon myself the responsibility of recommending the scheme in an incomplete form.

former to same present loss, having satisfied myself that this could be effected leaving the more extended scheme for the new lands to be matured as soon as I could obtain the services of a Surveyor and get funds to pay for the necessary excavations.

2. I beg to observe with reference to the Acting Chief Engineer's Note para 14 the Coefficient of 82 used by me is not high for sluices with side walls approached by water having a great velocity as it has in all these large jungle streams with bed falls varying from 10 to 15 feet per mile. The Coefficient of 82 used by Major Baker is for still water and for narrow openings no lock gates &c. - under any circumstances with such sluices 82 would not be too high a coefficient to employ which is the same as the late Major Ryves always used for the sluices here and thus the quantity of water as calculated by me would not be so much less as it is said to be, no registers had ever been maintained at this Anikud until I had done - Rept. in 1871, but even there had not been properly registered the back water not having been noted. I am therefore obliged to approximate as well as I could with such information as I could obtain the

the water is being properly registered now 2.
3. As Mr Turner can do no work on the Jeffere Ghat at this time of the year I have directed him to complete this project and will submit it as soon as I can get the thing together but in the meantime I beg the Estimate for raising the bund may be sanctioned at once to secure the revenue from lands liable to require permission in the event of any failure of the rains in October or November all our registers showing that in those Northern Districts the supply of water from the South West Monsoon is far more reliable than that of the North East Monsoon and the great losses now he pointed out when seen there can be trusted as in this locality the water crops almost only partially irrigated.

The water is being properly registered now 2.
3. As Mr Turner can do no work on the Jeffere Ghat at this time of the year I have directed him to complete this project and will submit it as soon as I can get the thing together but in the meantime I beg the Estimate for raising the bund may be sanctioned at once to secure the revenue from lands liable to require permission in the event of any failure of the rains in October or November all our registers showing that in those Northern Districts the supply of water from the South West Monsoon is far more reliable than that of the North East Monsoon and the great losses now he pointed out when seen there can be trusted as in this locality the water crops almost only partially irrigated.

I have the honor to be
Your Obedt Servt.
W. T. Chinn
Actg. Superintending Engineer

N^o. 165

Letter N^o. 1560 dated 25th July from Lt. Col. J. F. Trocher Supg. Engr. 1st Division Note by the Engr. Chief Engineer for Irrigation

In Mr. Easton's letter N^o. 15 dated 11th April 1872 the Superintending Engineer 1st Division he states that no permissions were granted to lands under channels supplied by the Ara but that permissions were granted to the extent of 17970-10-6 on lands dependent upon the River channels. The Collector estimates the permission at Rs 19,816-5-10. The area dependent upon the Gondakula Ara tank is 1289 acres, for this area, including loss by evaporation, 10 millions of cubic yards of water would be sufficient, while the capacity of the tank is stated now to be 19 millions. 2. The object of increasing the capacity of the Gondakula Ara tank is in order to supplement the supply to the channels which are taken from dams in the Soradanuddi, situated below the Godoy Circuit

Use 10th July 1872 No 182 C184

J. N. 1872. McLean G.

From J. N. 3698.

To The Superintending Engineer, First Division.

The Secretary to Government

Department Public Works

MADRAS

Dated 25th July 1872.

Received 1st August 1872.

NO. 1560

ENCLO.

Subject.

States the circumstances under which the Gondakula Ara tank was submitted to the Collector of the Soradanuddi and the permission was granted to the extent of 17970-10-6 on lands dependent upon the River channels. The Collector estimates the permission at Rs 19,816-5-10. The area dependent upon the Gondakula Ara tank is 1289 acres, for this area, including loss by evaporation, 10 millions of cubic yards of water would be sufficient, while the capacity of the tank is stated now to be 19 millions. 2. The object of increasing the capacity of the Gondakula Ara tank is in order to supplement the supply to the channels which are taken from dams in the Soradanuddi, situated below the Godoy Circuit

Use 10th July 1872 No 182 C184

N^o. 148

crucial from which the Kondakula Ora
tank is supplied - but as far as can be
judged from the papers submitted, it would
appear that to admit of water being conveyed
to the River from the tank it is necessary
that a new channel should be excavated
and as the Superintending Engineer himself
stated that he doubted the accuracy of
of the levels taken & as a portion of the
channel was said to require a cutting 45
feet in depth & it had not been ascertained
whether the cutting would pass
through soil or Rock & hence its proba-
ble cost could not be estimated, I
stated in my vote dated 20th June
that in my opinion the
raising of the tank bank
should not be undertaken.

till the Project had been properly ma-
tured.

3. The Superintending Engineer in his
Letter No. 1560 dated 25th July justifies
himself

In L.O. No. 12163
of 10th July

himself for submitting the project in an
incomplete form on the plea that he had
ascertained that the capacity of the Konda-
kula Ora tank could be increased &
that a supply of water was available, by
means of which the crops dependent upon
the Soradamuddi might be saved and
the annual permissions be rendered un-
necessary and that he purposely omitted
the cutting of the new channel to bring
more land into cultivation; from this it
may be inferred that the cutting of the
new channel is necessary for the proposed
extension of cultivation only, but judging
of the locality from the map it would
appear that the new channel is necessary
to admit of the existing cultivation obtain-
ing a supplemental supply from the Konda-
kula Ora tank & if so, the capacity of
the tank should not be increased until
the estimate for the channel has been
completed.

4. The estimate for the tank bank
has not been prepared as it should have

and is unintelligible without the
Sections and it is impossible to ascertain
from the estimate what is to be the sec-
tion of the bank when completed

5. With regard to the Superintending
Engineer's remarks relative to the coefficient
used by him, it is only necessary to observe
that that coefficient is applicable to open
vents such as those of small bridges
but for submerged vents a coefficient
of .625 is by no means too low.

6. If Mr. Turner's Services are
available he could not be better em-
ployed than in completing the investiga-
tions required relative to the Nondakula
Orva Project.

Notacamund } W. F. D. A. Captain R. B.
21 August 72 } Agt Chief Engineer for Irrigation

To
The Secretary to Govt
M. Dept.

Public Works Department
No. 2184.
Proceedings of the Madras Government
P. the following

25th July 1721

10th Augst 1721

Engineer
will
be formed
58 of 17th
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the
are
table
tion

Project that he
may approve. And

Per 1872 Report
 The Chief Engineer
 for Irrigation
 To No 4320.
 The Secretary to
 Govt. Madras

No 165

Dated 21st 3 August/72
 Dec 22nd 3 August/72
 Dec 4th Sept/72

En: 1
 State on a letter from
 the Sup^r Engr 1st stating
 the circumstances under
 which the Pondakkal
 Orva scheme was sub-
 mitted to the Vyazapattam
 Collector in an incomplete
 state & affording certain
 information regarding the
 retaining of the lands of
 this work to secure complete
 irrigation of several villages.
 No 2154 - 12th Sept 1872

No 119

No 4972

Public Works Department
 No 2154.
 Proceedings of the Madras Government
 Read the following

From The Sup^r Engineer. } H.E. No 1560 of 25th July/72
 per D. M. S. }
 From The Chief Engineer } No 165 of 21st Aug/72
 for Irrigation. }

A. A.

The Chief Engineer
 for Irrigation will
 have been informed
 by G.O. No 1958 of 17th
 August, that the
 services of Mr.
 G. J. Turner are
 already available
 for any Irrigation
 Project that he
 may approve. And

there will be no objec-
tion to such services
being extended over
a period sufficient
to complete the inves-
tigations of the Konda-
Kula Awa Project;
as with the assistance
of Mr. Surveyor Fletcher
Mr. Turner's duties in
connection with the
Jenpore Ghant may
be carried out by occa-
sional visits to that
work.

The Chief Engineer
for Irrigation should
now place himself
in direct communication

with the Super Engineer
1st Division, and when
necessary with Asst
Engineer Turner;
and satisfy himself
as to the points re-
-garding which he
seems to require
further information.

Having obtained
which, he will pro-
ceed to lay down
such instructions for
the elaboration of
the project as may
be requisite. The
Super Engineer will
take care
see that these

instructions are carried
out, deferring to the
opinion of the Chief
Engineer for direction
as to the coefficient
to be used in cal-
-culating discharges,
and in all other
details.

WIN

both as regards,

Super Eng. 1st class
Chief Eng. for direction
Dec 16/9/72

R. H. Epp

C/102 3692 44320

Gobt. of {1872} Madras.
PUBLIC WORKS.

To

Dated

Recd.

Encl.

G. O. 10th Sept. No. 2154.

Nos. 1148 @ 150.

Konda-Kula Ara Pappiah.

Pupkin orders in late by
the the the for migration in
Kulas from the the the of the
1872. Regarding the Konda-
Kula Ara Pappiah.

12-4 20/7/72