

Public Works (1897) Department.

G.O., No. 3560 W

DATED 18 December 1897

11/12/97

[Despatch Abstract.]

Establishment: Sanctioning the entertainment for a period of three months of a Surveyor on Rs 80 and six lascars on Rs 7 each per month for surveying the Kistna river and shoals for 8 miles above the Anicut.

II

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B

18.12.97

Government {1897} of Madras.
PUBLIC WORKS.

Spare copies

G.O., No. 3560 W., 18th December 1897.

DECEMBER.

Sanctioning the entertainment, for a period of three months, of a surveyor on Rs. 80 and six lascars on Rs. 7 each per mensem for surveying the Kistna river and shoals for 8 miles above the anicut.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers:—

Further note on sets and shoals in Kistna river above the anicut.

The Yedduvagu set above the anicut was again inspected by me on the 22nd instant, the water at that time flowing 4-20 feet over the anicut.

The effect of the late freshes, 8 to 10 feet over the anicut on the Yedduvagu set has been to cause further collapse of the margin and also the entire silting up for a length of several hundred feet of the channel at "A"; the shoal here now joins the river margin and all supply along this margin of the river is altogether cut off.

2. Mr. S. Panchapakesa Aiyar, the River Conservancy Sub-division officer, Western division, kindly accompanied me and gave me the benefit of his advice. He strongly recommends to treat the set by planting triangular groynes of Brownlow's weeds at the anicut, is of opinion that they will effectually arrest erosion and form up the set. I concur with this recommendation and submit an estimate for eight groynes of Brownlow's weeds at the cost quoted by Mr. Panchapakesa Aiyar as being that found by actual work in the Western division.

3. I also propose to throw a casuarina pile brushwood and stone groyne $x y$ across the channel at the head of Venkatapalam lunka to cut zigzag channels through the lunka $z z z$ to root out the brushwood and plough up all the ground on the left of this channel with a view of causing the cutting away of the head of this lunka and thus bring the action of the river on the north margin of this lunka instead of (as at present) on the west margin. Definite estimate and proposals regarding this will be submitted later.

4. I would again respectfully urge the advisability of a long stone groyne being thrown out above the line "T V" (*vide plan*) to facilitate the formation of a good channel for both navigation and supply to the Western delta works. I would point out that the new falling shutters, which will be fitted next year, will give a great assistance in regulating the shoals near the anicut in a low river, should this groyne be built, by judicious lifting or lowering of the shutters with a river from 2 to 4 feet over anicut crest. I would, in this connection, invite attention to the results experienced on the Narora weir, Lower Ganges canal works, with the aid of a long central groyne thrown out perpendicular to the anicut and to the proposals made for the construction of a number of such groynes.

The power thus obtained of controlling the shoals is very striking. It would not be possible with our very limited means of regulating discharge (by undersluices and falling shutters) to obtain such results as on the Ganges, but I submit that the construction of such groyne as I propose would produce similar ones in a lesser degree and cannot but prove beneficial. With regard to violent action apprehended, the effect of the groyne would be to remove the site of such action from the vicinity of the face of the anicut where it at present takes place to a distance at least the length of the groyne proposed from the face of the anicut. The papers regarding the Lower Ganges canal works belong to Colonel Smart, who kindly lent them to me. They are the Government publications embodying reports on the conservancy operations, Lower Ganges canal works, 1889 to 1896.

5. I find it impracticable to get a proper survey of the river above the anicut made in a reasonable time by the boat superintendent whom I put on the work. The proper duties of his post take much of his time and he is not a trained surveyor. I therefore submit, for favour of early sanction, an estimate for surveyor on Rs. 80 and six lascars on Rs. 7 for the survey of the river and shoals for 8 miles above the anicut. It is proposed to take a chain and theodolite survey of both banks and interpolate the shoals by cutting from fixed beacons on shore. I expect to have a surveyor available on completion of another survey work in a few days, and propose to put him on this work with your permission in anticipation of sanction. It is impossible to design for the necessary works without such a survey.

(Signed) W. M. ELLIS, Capt., R.E.,
Ex. Engineer, Kistna Northern Divn.

No. 2361 K.N.

Forwarded to the Chief Engineer for Irrigation, for favour of obtaining the sanction of Government to the estimate, amounting to Rs. 4,200, for constructing groynes of Brownlow's weeds for Yedduvagu set, Kistna right margin, and for the survey establishment required.

2. The Executive Engineer has been directed to act in anticipation of sanction to the above.

(Signed) J. S. WILSON,
for Supg. Engineer, II Circle.

25th November 1897.

No. 80 E.W.

Copy forwarded to the Acting Chief Engineer, Public Works Department, with a request that the early sanction of Government may be obtained to the survey establishment applied for, in the appended statement.

2. The estimate of Rs. 4,200 for groynes has been recommended for the sanction of Government.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

CHERPÂK,
7th December 1897.

ORDER—No. 3560 W., dated 18th December 1897.

The entertainment, for a period of three months, of a surveyor on Rs. 80 and six lascars on Rs. 7 each per mensem required for surveying the Kistna river and shoals for 8 miles above the anicut is sanctioned.

2. This sanction has been registered as Provincial No. 79 W. of 1897-98, and classified as Establishment—Temporary.

(True Extract.)

Under Secretary to Government.

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

Exd. C. M. Thambasawmy.

Public Works (1897) Department.

CURRENT No. 12259.

Order

The entertainment for a period of three months, of a surveyor on Rs 80 and six lascars on Rs 7 each per mensem required for surveying the Kistna river and shoals for 8 miles along the Anicut, is sanctioned

From

The Chief Engineer
P.W.D. for Irrigation

No. 8082

2. This sanction has been registered as Provincial No: 79 W of 1897-98, and classified as Establishment, Temporary.

Dated 7-12-97

Received 10-12-97

Enclosures 1

Spare copies

SUBJECT.

Survey Establishment required for yeddu vagee Sec-alone the Kistna Anicut - Forwarded by letter from the S.E. II with a request that early sanction may be obtained to the - officer for -

To The S. E. II Secy
" Secy - P.W. Accounts
" Chief Engr for Irrigation

Note The above establishment is required to take a chain and theodolite survey of both banks of the river, and to interpolate the shoals by cutting from fixed beacons on the shore.

The Executive Engineer reports that it

Part II.

Statement of proposition for

ORDER SANCTION-
ING PRESENT
ESTABLISHMENT.Govt. of
P. W. D.

No. Date.

Office to which the proposition
refers

Present scale.

Pay.

Total cost.

Minimum. Increment. Maximum. Average or fixed.*

Rs. Rs. Rs. Rs. Rs.

Survey of the
River &
Shoals for
8 miles above
the Krishna
Anicut.

Amount of proposed salary
retained & ref. - Rs. -

TOTAL

* In the case of appointments on progressive pay, the "average" should be

Certified that the entries under the head "present scale" have been duly verified by me.

Examiner, P. W. Accounts,

Madras.

Dated the 189 .

revision of establishment.

Part II.

CHANGES.

PROPOSITION.

Proposed scale.

Permanent.

Temporary.

Increase per month. Decrease per month.

Increase per month. Decrease per month.

REMARKS.

No.	Designation.	Pay.				Total cost.	Amount.	Amount.	Period.	Amount.	Period.	Amount.
		Mini-mum.	Incre-ment.	Maxi-mum.	Aver-age or fixed.*							
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Mon.	Rs.	Mon.	Rs.	
1	Surveyor on duty.				80				3		80	
6	Lascars on duty.				42				3		42	
					112							
Total increase per month 112												
- do - for 3 months 336												
TOTAL												

calculated according to the rules in the Pay and Acting allowance code.

W. B. B. S. E. II class

Dated the 1. 11. 1897.

W. B. B. S. E. II class
31/10/97
Executive Engineer,
Division

Ch. B.
11/11/97

Endorsement from the Supg
Engineer, Second Circle, R-
2361 K.N. dated 25th November 1897.

Further note on sets and
Shoals in Kistna river above
the anicut.

The Yeddu wagu set above
the anicut was again inspected
by me on the 22nd instant, the
water at that time flowing ⁵⁴4.20
over the anicut.

The effect of the lake freshes
8 to 10 feet over the anicut on the
Yeddu wagu set has been to cause
further collapse of the margin
and also the entire silting up
for a length of several hundred
feet of the Channel ^{at} "A", the shoal
here now joins the river margin
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2. Mr S. Panchapakasa Iyer,
the River Conservancy Subdn:
officer, Western Dn, kindly
accompanied me and gave me the



Dec 1
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Ch. R.
W. D. N.

the benefit of his advice. He strongly recommends to treat the set by planting triangular groynes of Brownlow's weeds at intervals of one furlong along it and from his experience with such groynes tried below the anicut is of opinion that they will effectually arrest erosion and form up the set.

I concur with this recommendation and submit an estimate for 8 groynes of Brownlow's weeds at the cost quoted by Mr. Pancha-pakasa Iyer as being that found by actual work in the Western Dr.

3. I also propose to throw a Casuarina pile brushwood and stone groyne X Y across the channel at the head of Venkatapalam lunka to cut highway channels through the lunka Z. Z. Z. to root out the brushwood and plough up all the ground on the left of this Channel with a view of causing the cutting away of the head of

this lunka and thus bring the action of the river on the north margin of this lunka instead of (as at present) on the west margin. Definite estimate and proposals regarding this will be submitted later.

4. I would again respectfully urge the advisability of a long stone groyne being thrown out above the line "TV" (wide plan) to facilitate the formation of a good channel for both navigation and supply to the Western Delta works. I would point out that the view of falling shutters which will be fitted next year will give a great assistance in regulating the shoals near the anicut in a low river should this groyne be built, by judicious lifting or lowering of the shutters with a river from 2 to 4 feet over anicut crest. I would in this connection invite attention to the results experienced on the Narora weir Lower.

Lower Ganges Canal works with the aid of a long central groyne thrown out perpendicular to the ancient and to the proposals made for the construction of a number of ^{such} groynes.

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Wm. Ellis, Capt. R.E.
Exe Engr: Kistna N. Dr.

18- 2361 KN
25. 11. 97

Enc 4.

I forwarded to the Chief Engineer for Irrigation for favour of obtaining the sanction of Government to the estimate amounting to Rs 4,200 for constructing groynes of Brownlow's weeds for Geddavagu set, Kistna right margin and for the survey establishment required.

2. The Executive Engineer has been

been directed to act in anticipation of sanction to the above.
18d / J. S. Wilson

for Supply Engineer

N- 80th.

Enc 1

Copy forwarded to the acting Chief Engineer Public Works Deptt, with a request that the early sanction of Government may be obtained to the Survey establishment applied for in the appended statement.

2. The estimate of Rs 4,200 for groynes has been recommended for the sanction of Government.

W. Hughes

Chief Engineer for Irrig.
Chepak
7 Decr 1897.

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