5-8-98.

Revenue (1898) Department.

MISCELLANEOUS SERIES.

G.O., No. 3035

DATED 19th July 98

[Despatch Abstract.]

Commg. to the Bd. of Revl. Proc: of the Public Works Dept. Sanctioning estimate of Rs. 2300 for preliminary expenses in connection with the investigation of the Papanasam reservoir project in the Tinnevelly district.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Government (1898) of Madras.

PUBLIC WORKS.

Read. 11th July } 1898. *Enclosures*
Regd. 15 " *Spare copies*

G.O., No. 507 I., 2nd July 1898.

G.O. this No. 3035 dt/19th July 1898 communicated to the Board of Revenue.

JULY.

R.D. 15-7-98

To the Board of Rev (Rev. Settt.)
" " (L. Rev)

Papanasam Reservoir Project

Sanctioning estimate of Rs. 2,300 for preliminary expenses in connection with the investigation of the — in the Tinnevelly district.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers:—

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Kodaikánal, 15th June 1898, No. 453 T.N.

With reference to G.O., No. 53 I., dated 19th January 1898, I have the honour to forward, for your approval and sanction, an estimate, amounting to Rs. 2,300, for preliminary expenses, and a proposition statement for survey establishment required for the investigation of Pápanásam reservoir project in the Ambásamudram taluk of the Tinnevelly district as ordered therein.

2. It has been roughly calculated that a total length of 103 miles will require to be levelled and surveyed, and the proposed survey establishment is not excessive.

3. Provision is made in the estimate for hutting the temporary establishment on the hills.

ENCLOSURE.

REPORT to accompany the proposition statement for survey establishment and estimate, preliminary expenses, necessary for the investigation of Pápanásam reservoir project in Tinnevelly district.

The proposition statement is called for in G.O., No. 53 I., dated 19th January 1898.

2. The works to be done are—

(1) Laying down a base line almost parallel to the course of the river and taking cross sections from it at intervals of 2 furlongs up to points about 20 feet above the probable F.T.L. of the reservoir on both sides.

(2) Taking survey of all the level lines.

(3) Running a contour line all round above site of dam at the level of the probable full tank level.

(4) Sinking trial-pits at intervals of 100 feet down to hard rock along the line of dam.

(5) Taking a detailed longitudinal section along the line of dam showing the levels of trial-pits and taking cross sections at intervals of 100 feet for lengths of 300 feet above and 300 feet below the longitudinal line.

(6) Clearing jungle for an average width of 10 feet along all the level lines.

(7) Construction of huts for the accommodation of surveyor and lascars on the hills.

3. There is a survey plan showing the site of the reservoir and its waterspread, dated 14th October 1869, and initialled by Major G. M. Payne. The works to be done are roughly calculated from measurements made from this survey and they are as follows:—

Length of base line which may be along the forest road about 4 miles—

	MILES.
Sixteen cross sections at intervals of 2 furlongs of an average length of 3½ miles each (16 × 3½)	56
Detailed longitudinal and cross sections of the site of dam about ...	6
Length of contour line at F.T.L. about	20
Total length of level lines ...	82
Add 25 per cent. for zigzags in the several lines and probable errors in measurements from survey map	21
Total length to be levelled and surveyed ...	103
Total length of jungle clearance for 10 feet width ...	103

Forty trial-pits, taking probable length of dam to be ¾ths of a mile, each 6 feet square and 10 feet deep on the average. 40 × 6 × 6 × 10 = 14,400.

4. Assuming that one mile of survey and of levels can be taken on the hills in a day, a survey establishment for about 3½ months will be required for surveying and levelling 107½ miles. It is quite certain that field work will be retarded very frequently by rains on the hills and it may take a longer period than 3½ months for field work. It is therefore considered that 7 months will be required in all for field work and plotting. The proposition statement, therefore, provides for a surveyor for 7 months and 8 lascars for 5 months. The pay of the former must be Rs. 80 and of the latter Rs. 8 each per month, as no men can be obtained for less pay for work on the hills.

The 8 lascars are made of—

2 chainmen.
2 staffmen.
1 for carrying instruments.
1 do. instrument box.
2 men for pegs and clearing branches of trees that may obstruct the field view of the telescope.

An average rate of Rs. 7-8-0 per mile for clearance of jungle and of Rs. 15 per 1,000 cubic feet for sinking trial-pits are assumed.

But payment will be made as per actual quantity and nature of work that may be done.

(Signed) S. GOPALAKRISHNA AIYAR,
Executive Engineer.

16th April 1898.

No. 184 I.

Note by the Chief Engineer for Irrigation.

In G.O., No. 53 I., dated 19th January 1898, it was decided that the Pápanásam reservoir project in the Tinnevelly district should be fully investigated and the Superintending Engineer, VI Circle, was directed to make arrangements for making the necessary surveys.

2. He now submits a proposition statement for a surveyor for 7 months on Rs. 80 per mensem and 8 lascars for 5 months on Rs. 8 per month each. The statement has been forwarded to the Chief Engineer, Public Works Department, for the necessary sanction.

3. The cross sections should be taken at intervals of one furlong and not of two as stated in the report, but the estimate has not been altered on this account as the cost of clearing jungle is rather an uncertain item. The jungle is all preserved forest and, for the most part, of dense growth. The clearance of survey lines should be arranged for in communication with the Forest Department.

4. For hutting the survey establishment, clearing jungle, &c., the Superintending Engineer also submits an estimate, amounting to Rs. 2,300, which is approved and may be sanctioned.

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

21st June 1898.

ORDER—No. 507 I., dated 2nd July 1898.

The following estimate is sanctioned:—

Irrigation.
43. Minor Works and Navigation.
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.
Tinnevelly Division.
Original Works.
Preliminary expenses for investigating the Pápanásam Reservoir Project.

	RS.
Estimate	2,300

2. This sanction is registered as No. 46 I. of 1898-99.

(True Extract.)

Under Secretary to Government,
~~Irrigation Branch.~~

To the Chief Engineer for Irrigation.
" Superintending Engineer, VI Circle,
with seven enclosures.
" Examiner, Public Works Accounts.
" Revenue Department.

Recd

Ed. W. D'Moss.

When given for copying ——
When copied ——
When examined ——
When signed ——
} 189 .

READ AGAIN G.O., No. DATED
189 ,

CURRENT No.

ENCLOSURES TO G. No.

ORDER OF GOVERNMENT .. .. .. A A A A A A A

OF GOVERNMENT.

STATEMENT WITH DITTO

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH IN ORIGINAL.

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