

3.- In regard to the 2nd paragraph of your letter, I am to say that the Government of India is pleased to approve of the Proceedings of His Excellency the Governor in Council in offering a reward for a scheme of water supply for Bangalore, and in reserving a sum of Rs. 2,000 in the Military budget of 1888-89 for the purpose.-

I have the honour to be,
Sir,
Your most obed^t. Serv^t.

19.6.88

G. H. Wilson

Under-Secretary to the Gov^t of India.
H.

Documents accompanying
- Nil -

17.20. W 4/9. 1888
Ch. a. 5.6.88

Recorded.

132 D 7.5.88.
757 W 6.3.88.
2940-1 W 5.11.87.
2810- W 20.10.87.
1924 W 18.7.87.

Jan 21/88

2/19/6

Thurston
LS

12/6

21.5/6
24/6
27/6

21/6

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads,
Military Works.

READ—the following letter from Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Bangalore, 20th October 1887, No. 2946 :—

With reference to G.O., of 12th July 1887, No. 1924 W., Public Works, I have the honor to forward an estimate showing approximately the amount of compensation required to be paid for the removal of Agram and Jaksandra villages with the hamlets of Venkatapuram and Maistrypalia attached to the latter. The compensation amounts to the large sum of Rs. 2,96,843. In addition to this a sum of Rs. 15,000 will be necessary to acquire some other lands besides the above. The total estimated cost will therefore aggregate Rs. 3,11,843.

2. As regards the proposal to take a pipe from the higher level tanks with the view of reduction in the estimated annual expenditure connected with Captain Romilly's project A, I beg to point out that the higher level tank water is required for cultivation and could not be indented on for the supply of the troops. With reference to the idea of pumping from the Cauvery, I beg to point out that the Cauvery at the railway bridge is some 600 or 700 feet lower than the station of Bangalore, and that, moreover, the water would have to be brought a distance of about 80 miles through a somewhat difficult country, so that the project indicated is not practically feasible. I propose shortly to visit the Arkavuty river with the view of utilising that river for the supply of Bangalore. The road to Nellamangalam crosses the river at a distance of 12 miles. At this point the catchment basin is about 335 square miles, while lower down, where the road from Bangalore to Magadi crosses it, the drainage amounts to 575 square miles.

3. Unfortunately the river is much lower than Bangalore. Probably at the point on Nellamangalam road, 12 miles from Bangalore, it is some 300 feet lower, and if water is obtained from that river, it will have to be pumped up fully 300 feet. Bangalore is situated on the water-shed between the two rivers of Arkavuty and Penaukeny, and these river-beds are about 12 miles distant west and east, and some 2 or 300 feet lower. It will be impossible to get water from either of these rivers without considerable pumping power. I propose shortly to visit these rivers. I enclose a sketch map showing the position of Bangalore with regard to these rivers with a short memorandum.

ENCLOSURES.

STATEMENT showing the approximate amount of compensation estimated for the purpose of taking Agram and Jaksandra villages, and the hamlets of Venkatapuram and Mastryapalia attached to the latter, for the improvement of Bangalore water-supply in the Agram Hobli, Bangalore taluk.

Village.	Particulars of land.	DRY LAND.				WET LAND.				GARDEN.				Total amount of compensation estimated.		Amount of 30 years' Cundayam due to Government.	Amount of compensation for the tank.	Houses, temples, and other building within the village site.	Bungalows, temples and mantapams out of the village site.	Amount of wells.	Total amount of compensation estimated.
		Extent.		Rate per acre.		Amount of compensation.		Extent.		Rate per acre.		Amount of compensation.									
		ACRES.	GUNTAS.	RS.	RS. A. P.	RS.	RS. A. P.	RS.	RS. A. P.	GUNTAS.	RS.	RS.	RS. A. P.	RS.	RS. A. P.	RS.	RS. A. P.	RS.	RS.	RS.	RS.
Agram.	Assessed land under cultivation	275	23	100	27,557 8 0	79	..	150	11,850 0 0	7	21	200	1,505	40,912 8 0	23,720 12 0	20,000	15,000	1,020	4,545	1,65,267	
	Inam land	102	5	200	20,425 0 0	36	..	250	9,056 4 0	..	..	..	..	29,481 4 0	..	..	..	..	..	..	
	Waste land fit for cultivation	70	10	100	7,025 0 0	..	..	..	..	..	..	..	..	7,025 0 0	..	..	..	..	..	..	
	Village site, unassessed, Gornaul land, tank-bed and phoot karab	235	25	100	23,562 8 0	..	..	..	..	..	..	..	..	23,562 8 0	..	..	..	..	..	..	
	Total ..	..	..	..	..	..	..	..	..	..	..	..	..	1,00,981 4 0	..	..	..	..	..	1,65,267	
Jaksandra and the hamlets of Venkatapuram and Mastryapalia attached to it.	Assessed land under cultivation	391	30	100	39,175 0 0	11	33	150	1,773 12 0	10	28	200	2,140	43,088 12 0	5,813 0 0	2,500	10,243	1,230	4,940	1,31,576	
	Inam land	207	5	200	41,425 0 0	..	37	250	231 4 0	12	2	300	3,615	45,271 4 0	..	..	..	..	..	..	
	Waste land fit for cultivation	11	15	100	1,137 8 0	..	..	..	..	..	..	..	..	1,137 8 0	..	..	..	..	..	..	
	Village site, unassessed, Gornaul land, land bed, and phoot karabs.	73	21	100	7,352 8 0	..	..	..	..	..	..	..	..	7,352 8 0	..	..	..	..	..	..	
	Total ..	..	..	..	..	..	..	..	..	..	..	..	..	96,850 0 0	..	..	..	..	..	2,96,843	
	Grand Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

N.B.—For the enlargement of Agram tank some other lands attached to the villages of Vankajee Rayarakar Yalalokuntai, Yalakunta and Boomanally, which are not included in the above, are necessarily required for the purpose of tank-bed and the compensation of which will be nearly Rs. 15,000.

(Signed) A. H. MACINTYRE,
Deputy Commissioner.

BANGALORE.
20th September 1887.

MEMORANDUM.

Bangalore is on very high ground, between the valleys of the Arkavuty and Penaukeny rivers, and it can only be supplied with a copious supply of water from either one or other of these rivers. About 15 miles to the east we find the very large tank of Ooscottah on the valley of the Penaukeny. This tank might be made available, but the water will have to be pumped up a height of 200 feet. To the west we have the Arkavuty on the road to Magadi; the Arkavuty is crossed at a distance of 19 miles from Bangalore, but the bed is some 350 or 400 feet lower than the city.

On the road to Nellamangalam, about 12 miles from Bangalore, the Arkavuty is crossed; here it is only about 220 feet below Bangalore. At this point the catchment basin of the Arkavuty is about 335 square miles, while the catchment basin of the Ooscottah tank is 650 square miles. On the road to Magadi, at a distance of 6 miles, a small drainage of 4 square miles is crossed, which is said to have a good deal of water, but I do not think it at all likely there will be found to be sufficient there. The levels of this drainage I do not know. About half way to Ooscottah and 2 miles to the left of the road is a drainage of about 65 square miles with a terminal tank which was constructed at the time of the last famine. This might be utilised, but the drainage area is not, I think, sufficiently great. General Mullins states that the water of the Ooscottah tank is not considered good by the natives, but I think it would be worth while to have the water analysed, and, if found good, this water might be pumped up to Bangalore. There is a hill close to the tank, height 2,887, and on this hill might be erected a stand-pipe so as to command the barracks at Bangalore, but the stand-pipe would have to be 143 feet in height. I propose to visit shortly Ooscottah tank, the river Arkavuty on the road to Nellamangalam, and the other two smaller drainages mentioned in this memorandum.

BANGALORE,
20th October 1887.

(Signed) H. M. VIBART, Col., R.E.,
Superintending Engineer, V Circle.

ORDER—dated 5th November 1887, No. 2940 W., Public Works.

Ordered to be forwarded to the Government of India.

(Here enter No. 2941 W., dated 5th November 1887.)

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, V Circle.

LETTER—to the Secretary to the Government of India, Military Department, dated Chepak, 5th November 1887, No. 2941 W.

Adverting to your letter No. 1182 M.W., dated 11th June 1887, on the subject of the Bangalore water-supply, I am directed to forward copy of the accompanying letter, with enclosures, from the Superintending Engineer, V Circle, affording the information called for by the Government of India in respect to the cost of removal of the four villages which drain into the Agram tank, and offering remarks as to the other suggestions contained in paragraphs 4 and 5 of your letter under acknowledgment.

2. I am to add, that the question of supplying the troops with pure drinking water is still engaging the attention of this Government, as will be seen by their Proceedings, No. 2810 W., dated 20th October 1887, copy of which I am to forward for the information of the Government of India.

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. J. Moses.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1887) Madras.
PUBLIC WORKS.

Dated November, 5th.

Recd.

Encl.

G.O., 5th Nov. 1887, Nos. 2940,
2941 W.

NOVEMBER.

Bangalore Water-Supply

Forwarding to the Government of India
copy of a report from the Superintending
Engineer, V Circle, in connection with the
scheme for the — for troops, and copy of
certain Proceedings of the Government on
the subject.

I. W. D.
No. 757 W of 6th March 1888

To
The Secretary to the
Government of India,
Public Works Dept.

Sir,
I am directed to
request the orders of the
Government of India as to
whether an officer in
the service of Government,
or an officer sent to the Mysore Govt.,
who may prepare a scheme
for the supply of Bangalore
with drinking water, as
called for in Proceedings
of this Government No.
2810 W dated 20th October
1887, of which a copy
is forwarded for information,

would be considered
is eligible for the
honourarium which has been
offered to the successful
competitors. It is understood
that several officers are
engaged on the elaboration
of schemes, and it is
desirable that they should
clearly understand the
conditions under which
they are working out
their projects. I am to
request therefore that
a definite decision
on this point may be
communicated at an early
date.

2. If the Governor
in Council has assumed
in offering the reward

that there is no objection
from a financial point
of view to the amount
of Rs 2000/- being expended
in the manner proposed,
& debited to the work in the event of the approved scheme
being made use of. I am to inquire whether
the Govt of India concurs
in this view. —

WOM
1.3.88

Mh
1/3/88

Despatch 7-3-88 with
G.O. 2810 W. of 20.10.87.

R.S.

No 1051 W a/23.4.87
 " 1052 W a/23.4.87
 " 2838 W a/23.8.87
 " 1024 W a/18.7.87
 " 2810 W a/20.10.87
 " 2920 W a/5.11.87
 " 4269 C a/23.11.87
 " 4667 C a/15.12.87

No 757 W dated 6th March/88

208 873

H.W. 2.iii.88

Jul 15/88
 12/10

S.A.W

Bangalore 28/2/88

GOVERNMENT OF MYSORE

My dear Kaddeler,

Please excuse my troubling
 you, but Bowen has just heard
 from Target who says that Bowen
 & I are not permitted to compete
 for the bonus sanctioned for an
 Essay on the Bangalore Water Supply.
 Kindly let us know if this is the
 case - Will you also please order
 a copy of the printed papers to be
 sent to Bowen -

Yr Sincerely

Ch. Kensington

Cu

S.A.W

The attached ship has to be
put up into no 132 & in
the file reg. Bangalore
water supply sent down
yesterday.

cc

8/6.

Amat. paper from
Octy 12-6-88-

S.P.

HC

1720 kg-6-88

3.11.88

RK

Papers please.

757 W of 6/3/88

cc

5/5

S.A.W. Papers put up India
has not yet replied.

S.P.

to

5-5-88

C.A.W

With reminder telegram
which contains form
of approval. CC

P.W.D

No 132 D of 7th May 1888.

red telegram

Forces

Sumla

Favour early
reply requested my
757 W sixth march
Bangalore water supply
Essays will be con-
sidered ^{after} fifteenth
instant.

MEMO
5.5.88

Done
7/5/88

CC

No 1051 W a/23.4.87
 " 1052 W a/23.4.87
 " 2838 W a/23.8.87
 " 1924 W a/18.7.87
 " 2810 W a/20.10.87
 " 2900 W a/15.11.87
 " 4269 C a/23.11.87
 " 4667 C a/15.12.87

H.W. 2.iii.88
 5.iii.88

Sell
 15/iii/88
 8/12/88

Submitted.

J.H.
 6.v.88

S.H.
 1/12/87

Despatched Telegram

To Wares

Sula

Favoured early
 reply requested my
 75-7 w sixth march.
 Bangalore water supply
 Essays will be con-
 sidered ^{after} fifteenth
 instant.

Telegram
 despatched.
 7.v.88

W.W.
 5.5.88

J.H.
 7/5/88

Cu

No 132 D a/7th May 1888

Post

no 1107 W of 13.4.88
757 W of 6.3.88
2940 W of 5.11.87
2941 W of 20.10.87
2920 W of 18.7.87

N^o. 132 D of 7th May 1888

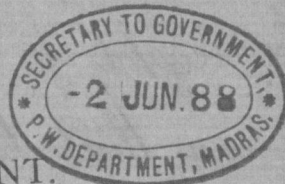
All communications
should be addressed to
the Secretary.

No. 1150 G.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

GENERAL.



To

The Secretary to the Government of Madras,
Public Works Department.

Simla, the 18th May 1888.

Sir,

I am directed to acknowledge the receipt of your
N^o. 757 W. dated 6th March 1888, requesting the orders of
the Government of India as to whether an officer in the
service of Government, or an officer lent to the Mysore
Government, who may prepare a suitable scheme for the
supply to Bangalore of drinking water, as called for
by the Madras Government, would be considered --
eligible for the honorarium which has been offered
to the successful competitor.

2.- In reply I am to say that under the circum-
stances there is no objection to the payment of the
reward in question to the person to whom it may be
adjudged.