(1) Number of pages 56

(2) Date of repair 25-11-87

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P. W. DEPARTMENT

G.O. No. B.P. No.	328	Press. Mis.
Dated	6 — 2 — 1886	198 .

to be folded or roughly handled.

ves —1 10,006-9 80

6TH FEBRUARY 1886, No. 328 W., PUBLIC WORKS.

1/328

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From Dr. W. KING, Superintendent, Geological Survey of India, to the Under Secretary to Government, Revenue Department, Madras, dated Calcutta, 30th October 1885, No. 1011.

In continuation of my letter, No. 985, dated 30th ultimo, I have now the honor to offer a further opinion on the Artesian well exploration in the immediate vicinity of Madras.

2. I may state at once that the broad conclusion seems forced upon us that all openings for the expectation of the possibility of meeting a rising water layer within a radius of at least 6 miles of Fort St. George are now closed. A radius of 6 miles is taken because it touches the eastern edge of the Red Hill plateau, which limits the alluvial flat on that side, and because the alluvial ground, at that distance northward from Madras, lies in what may be considered the Kortalayár basin.

3. The report of Mr. Cornet and any details of the People's Park boring, which I asked for in my previous letter, have not yet reached me, but, much as I should have liked, and still wish, to have them, considering how they might assist in the discussion of the general question of Artesian sources in India, I hardly think they would affect the conclusion now come to.

4. The alluvial area on which I had depended for any possible water-sheet is that of the Cooum or the Poonamallee plain. I all along feared the infra-alluvial stretch to the north-north-eastward of the Mount and Pallávaram ridgy tract of crystalline rocks; but was hopeful that it would have narrowed and deepened quickly, or that the rocky bottom touched in the old boring near the old inland custom house might have been either an isolated crest or a boulder. That boring only ran down to 55 feet below the surface; and now it turns out that the People's Park boring struck rock at 58 feet, at a point which, as far as I can make out, lies fully a mile to the south-south-westward of the first. This close agreement in depth seems to point clearly to a broader surface of subjacent gneiss; and when this is considered in connection with the broad spread of the Mount gneisses along the right bank of the Adyar river, it can hardly be doubted that the Mount area shelves very gradually under the whole Madras tract.

5. At first thought, I was hopeful that some greater depth of alluvium might be found to the north-westward of the People's Park in the direction of the Red Hills, but considerations of the possibly much more slowly shelving conditions of the sandstones and laterite formations balk me in that direction. Besides, we must look somewhere in this direction for a continuation or extension eastwards, under the alluvium, of the watershed between the Cooum and Kortalayár drainages, which is perhaps, after all, only concealed by a very thin covering of alluvial deposits.

6. The small thickness of the Cooum or Poonamallee plain deposits, or, in other words, the shallowness of the hollow in the floor rocks which are indicated so far by the evidences before us, taken along with the short landward stretch of the basin,—

the small alluvial connection at its western end with the Kortalayár alluvium (paragraph 29, letter in No. 569, dated 20th May 1880), being thus of little value, are therefore entirely against any advisability of further attempts at a search for rising water.

7. On the general questions of Artesian sources along the Madras coast there might be much to say in regard to the possibilities of the Kortalayár plain; but this is beyond the present inquiry.

Mis. No. 6248, Revenue.

Transferred to the Public Works Department, in continuation of endorsement, No. 5631, dated 13th October 1885.

Fort St. George,
12th November 1885.

(Signed) J. F. PRICE,
Ag. Secretary to Government.

From the Director, Geological Survey of India, dated 16th January 1886, No. 20.

Order—dated 6th February 1886, No. 328 W., Public Works.

When directing the discontinuance of the Artesian boring operations which were being carried out in the People's Park at Madras under the direction of M. Cornet, the Government, in their proceedings, No. 1732 W., dated 28th July 1885, asked Dr. William King, Superintendent, Geological Survey of India, to favor them with his opinion as to the locality in which a second experimental boring might be made, in the immediate neighbourhood of Madras, with the greatest probability of success.

2. Dr. King's reply seems to place beyond doubt the improbability of obtaining a supply of water from an Artesian source in the neighbourhood of Madras. The experiment will therefore not be continued.

3. The thanks of the Government will be conveyed to Dr. King for the interest and trouble he has taken in this matter.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Financial Department.
,, Superintending Engineer, V Circle.
,, Examiner, Public Works Accounts.
To Dr. William King.
To the Chief Engineer for Irrigation.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROA
CIVIL WORKS.

Govt. of (1886) Madras.

PUBLIC WORKS.

Dated February, 6th.

Recd. *Encl.*

G.O., 6th Feb. 1886, No. 328 W.

FEBRUARY.

Artesian Boring Operations

Orders on letter from Dr. King, on the subject of the continuance of further experimental — in the neighbourhood of Madras.

7/28

Madras 20th June. 1885

7/28

To

The Executive Engineer
Presidency Division
Chepauk.

Sir

I have the honor to forward for the information of Government, a summarized report on the work entrusted to me of boring Artesian wells at Madras. A site in the People's Park having been selected by a commission appointed for that purpose, I began work on the 24th March last. The first indications derived from the strata bored through seemed favorable for the succeſs of this undertaking: for the boring up to 17.300 metres was wholly through tertiary soil, consisting of plastic clay, marl, remains of decayed wood, and sand with big rolled pebbles. But at 17.300 metres masses of trachytic blocks were met; and at 18 metres the primitive rock consisting of black granite became well defined. Two metres of this rock have been cut through up to date.

2. A circumstance worthy of notice is that at depth of a little over 14 metres, there is a water-bearing stratum, of 2.600 metres in thickness, consisting of fine and coarse sand, with rolled pebbles imbedded in water- green clay, with remains of decayed shells and wood. Notwithstanding these indices of the existence there of a current, the level of water did not rise in the bore pipe; hence it is to be concluded that the hydrostatic conditions for tapping this stream, are not favorable at the site selected in the People's Park.

3. Granite having been met, for the first time, on the 18th of April last, I was led by the indications previously obtained, to suppose that it was derived from a boulder brought there by the current

referred

referred to in the previous para; and I made an official report to this effect; but the increasing hardness of rock soon led me to change my view in this matter. The commissioners having decided, on the 4th May, that 3 metres should be cut through before abandoning the bore, the work was pushed on; but up to the 15th May I had cut through only 1.190 metre and that with great difficulty and after having met with many accidents, for this rock is of black granite of a fine compact grain. I then proposed that to test whether the rock encountered is a boulder or the original crust of the earth, a boring of 4½ inches in diameter be made 50 yards due south of the first site. On the 18th May I received orders to proceed with this test bore; for which the plant required was made ready during the course of that month. In the afternoon of the 1st June the first pipe was sunk in the test bore.

The following rate of progress was attained.

1st June about 5 metres
2nd " " 3 "
3rd " " 3/4 "
4th " " 2 "
5th " " 2 "
6th " " 2 1/2 "

on reaching 16.500 metres agglomerations of primitive rocks, about the size of swan's eggs, with worn edges were found. On the 8th June in the morning, the shaft of the borer à traits de jupiter having broken, & the rubber mounted valve auger fell to the bottom of the boring whence it was extracted after a couple of hours of work. It was then found that the steel carp-tongue forming the lower part of the chisle had also broken and was left below. The extraction of this bit of tool took up the whole remainder of the day. On the 12th the granite bed well defined was met at 17 metres, all previous strata tallying with those traversed by the original big bore.

4 In order to collect further evidence as to the nature of the underlying strata, I have examined the sites of three Artesian borings attempted by private enterprise. Concerning the first of these which is at Tandiarpett about a mile from the sea, this is the information given to me by Petty Theagaroy Chettiar at whose expense the boring was made under the supervision of a Hindu mechanic called Naddoo. It was begun in December 1882 and was stopped in March 1883. The diameter of the bore 18.C. m. The pipes were 1.200^{mr} long and were made of sheets 25 millimetres in thickness. The shafts were connected by the system à traits de jupiter and the boring was made by hand on the Chinese system. The boring

was pushed out to the depth of 31 metres. No record exists of the strata passed through; but specimens were shown to me and these I found to tally exactly with those I have extracted from the two borings at the People's Park. It is claimed that a bed of 2 metres of rolled shingle was passed through. The tools used not being sufficiently powerful to work through rock, this boring was abandoned and the pipes were pulled out.

5. The second private boring referred to above was also made by Setty Theagaroy Chettiar. It is in the village of Satankadu in the compound called Arunoogam Moodelly Suttray. It is about a mile from the sea. It was worked at from April to August 1883 where a depth of 16 metres having been reached the widening auger broke and fell to the bottom. Means for picking up the broken tool not being forthcoming this bore was abandoned. The strata passed through are like those referred to in para 4.

(6) The third Artesian boring by private enterprise was made in the Village of Ennur twelve and half miles to the north of Fort St. George in the Lovoy estate belonging to A Manavalayya, munsif of Salem. It is close by Campbell's bungalow to the north of the backwater at Ennur. This boring was made under the supervision of A Ruthna Moodeliar owner of the Royapooram Foundry who seems well informed in matters connected with Artesian Wells. The surface of the ground at the site of this well is about 2.500 metres above the

level of the backwater. At the depth of 65 metres a waterbearing stratum with a head was found. This water is fresh, and it marks 8 degrees of the hydrotimeter. It rises to within $0.^{m}65$ from the surface of the soil and consequently about 2 metres above the level of the backwater. The boring is 18 c. m. in diameter, the pipes being 1200^{mm} in length made of sheet 2 m-m in thickness. As regards the tools employed, some were copied on English patterns and others on the models of Messieurs Lippman & Co. This boring begun on the 1st. September 1883. was stopped on the 25th December of that year at the depth of 200 feet. On the 12th August 1884 work was resumed and kept up the 5th September when a depth of 214 feet was attained. Diluvian, tertiary and secondary strata were successively bored through. While working

working on oolithic bed, the steel ring and chisel which tip the boring tool, fell to the bottom. The Superintendent Ruthna moodelliar is taking steps to extract this tool and to push on the boring of this well which promises to turn out a complete success.

Conclusion - 7. From these several data some inferences may be drawn concerning the probability of finding Artesian springs in or near Madras.

(a) The two borings at the Park with the boring in Petty Thegagoroy Chettiar's garden and the one at Puttray, having passed through indentical strata and the three first having landed on granite at the depth of about 60 to 100 feet, it is to be inferred that from the Fort to a distance of six or seven miles northwards and a mile or two or more from the sea towards inland, the underlying strata are everywhere indentical and consequently unsuitable for the research of Artesian springs. This area is coloured green on the map.

b. The level of Artesian water in the boring at Ennur indicates that in or around the delta of the Cortelliar in the area marked yellow on the map artesian borings will be successful. This fact may not be of use for the water supply of the town of Madras; but being of great importance to the owners of land in that neighbourhood, it should be made known to them to be turned to account by private enterprise.

(C.) The situation of the four first mentioned borings being between two rivers, it may be assumed

assumed to be too high up the ridge which divides the watersheds, height imperceptible on the surface but ascertained to slope on the primitive ground from 100 feet at Tandiarpett to considerably over 200 feet at Ennur. Likewise some shelving might be expected to exist southwards of the Fort up to the banks of the Coom. But considering the relation magnitudes of the Cortelliar and of the Coom, it is not likely that as favorable conditions will be met on the banks of the Coom as on those of the Cortelliar. Yet considering the importance of the water supply for Madras and the possibility now that on the required apparatus is ready — to ~~to~~ effect a trial boring of 4½ inch diameter cheaply it might be worth trying a few borings in the Government

House compound, or near the Body guard lines, or in the Napier Park or in the Hospital for Women and children or any where else in the area coloured brown in the map

(d) The banks of the Adyar in the area coloured grey on the map may afford good sites for Artesian Wells. A trial may be made at the Sydapet Farm.

(e) As the line of the Eastern ghats runs parallel to the Coast, it may happen that the neighbourhood of Madras is on a ridge running in the same direction and that at some distance westward, a primitive valley might exist underground, with conditions suitable for Artesian Wells. To test this matter it would be advantageous to make a few borings ten to thirty miles inland as at Poonamallie, Trivellore and Arconum.

(f) From all that proceeds I am led to believe that the boring in the Peoples' Park will never succeed, and that it is advisible to stop work in this report and make other trials in the several places I have indicated.

(g) I enclose the plans of the two borings made by me at the Peoples Park and the plan given to me by Ruthna Moodelliar of the boring he made at Ennur.

I have have the honor to be
Sir
Your most Obedt
Servant
(Sd) L. Cornet

(True Copy)

Assistant to the
Secy to Govt
P.W. Deptt

Exd

P.W. Genl / 511 of 86

No. 20.

FROM

THE DIRECTOR,

Geological Survey of India,

TO

The Under-Secretary,
Public Works Department,
Madras.

Dated Calcutta, January 16th 1886.

SIR,

By request of Dr King I have the honour to return to your office the copy of M. Cornet's report (20th June 1885) on artesian borings at Madras, with the drawing belonging thereto.

+Sent to Dr King
to [illegible]
16-1-86

I have the honour to
Sir,
Your most obedient Servant

H. B. Medlicott

Director, Geological Survey of India.

P.W.C. No 511.A

21 JAN 86

G.O. No 1932 W d/28.7.85 (Orig.)
" " 2676 W d/10.11.85

No 1137 C d/4.7.83
" 3129 W d/17.11.84
" 867 C d/4.5.83
" 357 I d/2.6.80

Recd 21.1.86 En. ×

+ 1 plan

Ore. 3.2.86 R 6.2.86

P.W. Department

C No 511 vide G.O. No 328 W 6.2.86

PB

13/328

To

Dr. William King
Supdt Geological Survey
of India.

Papers Enclosure
vide Cus 1038/86

Sir

In acknowledging the receipt of M. Cornet's report and drawing returned by the Director with his No 20 d/ 16th January 1886, I have the honor to request that, when done with, you will also return the original letter and sketch by M. DeClosets forwarded to you with G.O. No. 2676 W. dated 2nd November 1885.

W
2.2.86

14/323

Artesian borings in Madras.

Dr. King has returned the copy of M. Cornet's report without remark.

Dr. King's ~~former~~ letter No. 1011-8 30.10.85 is resubmitted for W's instructions.

Dr. King has not returned M. de Closets' original letter & sketch as requested.

F.B.
22.1.86.

the original letter and sketch by M. DeClosets forwarded to you wit G.O. No. 2676 W. dated 10th November 1885.

2.2.86

W.

Copy of Mons: Cornet's Report with an original tracing showing the strata passed through in the People's Park were forwarded to Dr. King on the 11th inst. They will probably be to hand today. At the same time Mons: DeClosets' letter was forwarded for perusal and return. Dr. King will, therefore, have to reply to G.O. 2676.W of 10/11/85, and may probably wish to supplement the remarks contained the original letter and sketch by M. Deflosets forwarded to you with G.O. No. 2676 W. dated 10th November 1885.

2·2·86

---

in his letter ~~now under~~ disposal.

Proposed to await a further comm. from Dr. King.

F.B.
17.11.85.

Recd. 7-12-85

(4)

T. A.W.

receiving letter dated – the as to place beyond a improbability of obtaining artesian supply of water from artesian source in the neighbourhood of Mad

Please draft disposal accordingly – thanking Dr. King for his letter & dealing with any other points which require notice.

The papers can then go in circulation.

26·1·86

Draft submitted.
ers are requested
to the disposal of
boring apparatus
at present in
custody of S.E. v.
para 8 of G.O.
32. W. d. 8-7-85.

the original letter and sketch by M. DeCloset forwarded to you with G.O. No. 2676 W. dated 3rd November 1885.

W
2.2.86

17/3/86

May this order [illegible] the [illegible] the draft [illegible]

I think W.T. has better see the draft before it is printed. I have told S.E.T. he might discharge Mr. Cornet & the [illegible] people, so no inconvenience will be caused by the delay. The order is one of some importance & I should like W. to pass it.

C.A.
22.7

the original letter and sketch by M. DeCloset forwarded to you wit G.O. No. 2676 W. dated 6th November 1885.

2.2.86

The recommendations made by S.E. in para 2 of his letter dated 8.7.86 should be accepted.

The G.O. should briefly summarise what has been done towards the experiment, & the reasons for stopping it. The cost which has been incurred should be stated. The chief part of such cost has been incurred in connection with the purchase of the necessary apparatus, which is now available for further experiments, — and the outlay which will be involved in making a second experimental boring in the immediate neighbourhood of Madras will be comparatively small.

The Pro: of Govt. (when printed) will accordingly be forwarded to Dr. W. King of the Geological Survey, with advertence to ~~the~~ an interesting paper by him, dated 31.3.80, on the subject of Artesian wells as a source of water supply in South India, — and with the request that he will favour the Govt. with his opinion as to the locality in ~~[illegible] the~~ which a second experimental boring may be made in the immediate neighbourhood

the original letter and
sketch by M. DeClose
forwarded to you wi
G.O. No. 2676 W. dated
10th November 1885.

2.2.86

---

of Madras with the greatest
probability of success.

A copy of the Pro: of G.
containing Dr. King's letter shd.
be sent to him for reference.
20.5.80. No. 569. Revenue.

I am not certain as to
Dr. King's present address.
whether in Central Provinces.
or Calcutta. or elsewhere.
but that can probably be
ascertained without difficulty

17.7.85

Please have draft disposal
prepared on above lines.

the original letter and
sketch by M. Deflose
forwarded to you wi
G.O. No. 2676 W. dated
20th November 1885.

No. 1011

19 NOV 85

FROM Dr. Will. King
~~The~~ SUPERINTENDENT,
Geological Survey of India,

19 NOV 85

TO
The Under Secretary to Government
Revenue Department.
Madras.

Dated Calcutta, October 30th 188

SIR,

In continuation of my letter No. 985 dated 30th Ultimo, I have now the honour to offer a further opi[illegible] on the Artesian Well Exploration in the immediate vicinity of Madras.

2 I may state at once that the broad conclusion seems forced upon us that all openings for the expectation of the possibility of meeting a rising water layer within a radius of at least 6 miles of Fort St. George, are now closed. A radius of six miles is taken because it touches the [illegible] edge of the Red Hill plateau which limits the alluvial flat on that side, and because the alluvial ground at that distance northward from Madras lies in what may be considered the Cortelliar basin.-

3. The Report of Mr. Cornet, and any details of the Peoples' Park boring which I asked for in my previous letter have not yet reached me, but much as I should have liked, and still wish, to have them considering how they

might assist in the discussion of the general question of artesian sources in India, I hardly think they would affect the conclusion now come to.

4. The alluvial area on which I had depended for any possible water-sheet is that of the Cooum [illegible] the Poonamallee plain. I all along feared the infra-[illegible]uvial stretch to the no[illegible]th-eastward of the Mount and Palaverum ridge tract of crystalline rocks: but was hopeful that it would have narrowed and deepened quickly, — or that the rocky bottom touched in the old boring near the old Inland Custom House might have been either an isolated crest or a boulder. T[illegible]t boring only ran down to 55 feet below the surface, and now it turns out that the Peoples' Park boring struck rock at 58 feet, at a point which, as far as I can make out, lies fully a mile to the south-south west-ward of the first. This close agreement in depth seems to point clearly to a broad surface of subjacent gneiss; and when this is considered in connection with the [illegible]oad spread of the Mount gneisses along the right bank of the Adyar river, it can hardly be doubted that the Mount area shel[illegible] very gradually under the whole Madras tract.

Please see para 35 of letter in Rev. G.O. No 569 20-5-80 - D.P. 16-11-85

5. At first thought, I was hopeful that some greater depth of alluvium might be found to the north westward of the Peoples' Park in the direction of the Red Hills: but considerations of the possibly much more slowly shelving conditions of the sandstones and laterite formations balk me in that direction. Besides, we must look somewhere in this direction for a continuation or extension eastwards, under the alluvium, of the watershed between the Cooum and Kortalliar drainages which is perhaps after all only concealed by a very thin covering of alluvial deposits.

6. The small thickness of the Cooum or Poonamallee plain deposits, or in other words, the shallowness of the hollow in the floor rocks which are indicated so far by the evidences before us, taken along with the short landward stretch of the basin, — the small alluvial connection at its western end with the Kortalliar alluvium (Para 29 letter No. 569, 20th May 1880) being thus of little value, — are therefore entirely against any advisability of further attempts at a search for rising water.

569 / 20-5-80

7. On the general questions of artesian sources along the Madras coast there might be much to say in regard to the possibilities of the Kortalliar plain: but this is beyond the present enquiry.

I have the honour to be,

Sir,

Your most obedient Servant,

Will: King. DS.

Superintendent, Geological Survey of India.

REVENUE (1885) DEPARTMENT.

No. 8484.

From Dr. Will: King
Supdt: Geological
Survey of India

Dated Oct: 30 } 1885.
Recd. Nov: 9 }
Ent 16/11/85

No. 1011.

SUBJECT.

Offering a further opinion on the Artesian well Exploration in the immediate vicinity of Madras.

16 N

p 3

Mis. No. 6248.

Transferred to the P. W. Department in continuation of Endorsement No. 5631, dated 13th October 1885.

S.L. 26764
10-11-85

Fort St George }
12 Nov. 1885 } Ag. Secy. to Govt.

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

Letter from Mous: L. Cornet H.E. No — of 18th July 1885

Letter from the Supdg: Engineer V Circle } No. 1469 of 8th July 1885

In their order No. 3129 W dated 19th December 1884, Government accepted an offer from Mr. Cornet, a French Engineer, to make the experiment of sinking an Artesian well at Madras. The maximum depth ~~was~~ named for the experiment was 120 metres, or ~~to be~~ 393 feet; and it was expected that, if the ~~site~~ experiment proved favourable, three months would suffice to complete the work. The approximate estimate of the cost of the well was set down at Rs 15,476

A.

2. ~~A site having been selected in the People's Park by a ~~Committee~~ ~~Commission~~ appointed for that purpose,~~ The People's Park having been suggested by Dr. King, of the Geological Survey of India, as a locality likely to prove favourable for such an experiment, a site was selected therein, and work was commenced on the 24th March 1885. For a depth of 58 feet the boring was through ~~tertiary~~ soil consisting of clay, marl, sand, &c; ~~but immediately after that masses of trachitic black ~~were~~ ~~encountered and at 58 feet the primitive~~ below which a ~~rocky~~ granitic formation was met with; ~~and the~~ into which the boring proceeded slowly, the rock being of excessive hardness. ~~rock consisting of black granite ~~[illegible]~~ became well defined. The~~ boring was continued slowly into this for about 6½ feet, the rock being of excessive hardness.

3. ~~A boring of 4½ inches diameter was then made fifty yards due south of the first site,~~ In order to ascertain whether ~~the black~~ the rock which had been encountered was a detached boulder, or an extensive underlying bed, a trial boring of small diameter was made at a distance of some 50 yards south of the first site. In this second boring ~~[illegible]~~ granite of precisely similar character was reached at the same depth; a result which went to show that the bed was continuous:

the rock encountered ~~[illegible]~~ ~~black granite~~, ~~previously~~ ~~met~~ was ~~evidently~~ a ~~boulder~~ detached mass, or an extensive underlying bed ~~of rock~~, or ~~a~~ ~~large stratum~~. It was proved to be ~~the~~ a continuous bed ~~[illegible] [illegible] latter, the rock having~~ granite of precisely similar character being encountered at the same ~~depth~~ as in the former case. M. Cornet then proceeded to examine three Artesian ~~wells~~ borings which had been attempted in the vicinity of Madras by private enterprise &c. From samples of the strata through which these borings had passed, M. Cornet concludes that, from Fort St. George to a distance of 6 or 7 miles north, and a mile or two inland, the underlying strata are everywhere identical and consequently ~~as~~ unlikely to yield any [illegible] ~~[illegible]~~ ~~suitable for boring operations~~ supply of water.

4. In his report

of the 20th June 1885, M. Cornet expresses his belief that the boring in the People's Park will ~~never~~ not succeed, ~~but~~ and suggests that ~~other~~ experiments be made at ~~such~~ other places ~~as Poonamallee, Tiruvallur & Arkonam~~. The Supdg Engineer V Circle being of the same opinion in regard to the experiment in the People's Park, the Government direct that the work be immediately discontinued.

5. M. Cornet's engagement will now cease, at ~~the end of July 1885~~ once and he will take immediate steps for the discharge of the work people.

6 The total cost

7

of the experiment will be reported by the Supdg. Engr V Circle.) ~~The principal item will naturally be the apparatus, which was imported at a cost of Rs 13,180. This being available,~~ + further experiments can be carried out at a comparatively small cost.

+ As the boring apparatus has been purchased, and is still available,

7. These Proceedings will be communicated to Dr. W. King, ~~of the Geological Survey of India~~, with advertence to his interesting paper on the subject of Artesian wells as a source of water supply in Southern India, which was printed in Revenue Department G.O. No. 569 dated 20th May 1880. Dr. King will be ask

favor Govt. with his opinion as to the locality in which a second experimental boring ~~might~~ may not be made in the immediate neighbourhood of Madras with the greatest probability of success.

8. The Supdg. Engineer V Circle will arrange for the custody of the apparatus, until it is again required for use

CH
22-7-85

W
27-7-85

[illegible] Record Section
10-3-86

vide G.O. 1732W 26-7-85

328W

To

Mons: L. Cornet
Dr. W. King with a Copy of G.O. Rev. No. 569 d/20th May 1880
" The Financial Dept
" Supdg: Engr. V Circle
" Examr. P. W. Accounts

B & R
Works

No. 328W

PUBLIC WORKS DEPARTMENT.

A/Circ.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the Feby. 6th 1886

READ the following

From the Supdt. Geological Survey of India Print } (H. E. No. 1011 d/30th October 1885)

From the Director Geological Survey of India Quote } (H. E. No. 20 d/16th January 1886)

V/328 5

When directing the discontinuance of the Artesian boring operations which were being carried out in the Peoples' Park at Madras under the direction of M. Cornet, the Government in their Proceedings No. 1732 W d/ 28th July 1885 asked Dr. William King, Superintendent, Geological Survey of India, to favor them with his opinion as to the locality in which a second experimental boring might be made in the immediate neighbourhood of Madras, with the greatest probability of success.

2 Dr. King's reply seems to place beyond doubt the improbability of obtaining a supply of water from an Artesian source in the neighbourhood of Madras. The experiment will therefore not be continued.

3. The thanks of the Government will be conveyed to Dr. King for the interest and trouble he has taken in this matter.

2.2.86

To
The Financial Deptt
" Supty: Engineer V Circle
" Examiner PW Accounts
Dr. William King
Chief Engineer for Irrigation.

6 FEB

The Honourable

H. L. Sillima

Con. 3-2-86 6-2-86

8913

Govt. of (1886) Madra

PUBLIC WORKS.

9/7/80

Dated

Recd

G.O. 6th Feby 1880. No.

Artesian borin

operations

Orders on letter f
Dr King on the m
or the Continuan
of further operation
in the neigh
of Madras

90
7