

(1) Number of pages 7

(2) Date of repair 19.3.58

(3) Initials of the Referencer G

19.3.58

MADRAS RECORD OFFICE

Government of Madras

Revenue DEPARTMENT

G.O. No.
~~B.P. No.~~

743

~~Press~~
Mis.

Dated

5th February

1889
195

Not to be folded or roughly handled

PROCEEDINGS OF THE BOARD OF REVENUE
(REVENUE SETTLEMENT, LAND RECORDS AND AGRICULTURE).

W. WILSON, Esq., M.A., C.S.

READ—the following letter from P. BOSWORTH SMITH, Esq., to the Secretary to the Commissioner of Revenue Settlement, Land Records and Agriculture, dated Yedahally, 14th November 1888, No. 2:—

With reference to Board's Proceedings, Mis. No. 3376, dated 1st November 1888, I have the honor to state that the second proofs of report on the Kolar gold field reached me on the 1st instant and were despatched corrected on the 4th instant.

2. With reference to paragraph 2, I beg to state that the only column that is not very clear in the tables mentioned is the last under the heading "gold in 100 tons." There should be a foot-note explaining that of all the gold contained in 100 tons of the original sample, the figures in the column represent the amount present, in that 100 tons, in particles of quartz of the size given in the first column. I put a short foot-note explaining this, but perhaps it was not clear enough.

3. Perhaps it would be as well if I explained to you how the experiments were made; then they will be better understood. I have not a copy of one of the tables with me, but I will take an example.

I weigh out 50 oz. of powdered quartz, put it on a 40 sieve (40 holes to linear inch) and shake until no more will pass through. I find I get $2\frac{1}{2}$ oz., so that 5 per cent. remained "on a 40 sieve." The stuff which was passed through is shaken on a 60 sieve and the residue remaining again weighed, and so on to the 100 sieve, which was the finest one used. Here we get (say) 10 oz. on the sieve and 25 oz. "through the 100 sieve." Of each of these five samples, 600 grains were taken and assayed in duplicate, the assay value being placed in the column marked "worth per ton."

I now give the supposed figures—

Original sample assayed a little over $\frac{1}{2}$ oz. per ton.

Size.	Per cent.	Worth per ton.	Gold in 100 tons of original sample.
On 40	5	2 oz.	10 oz.
" 60	10	1 "	10 "
" 80	15	1 "	15 "
" 100	20	$\frac{1}{2}$ "	10 "
Through 100	50	$\frac{1}{4}$ "	12 $\frac{1}{2}$ "

By this it will be seen that there was 5 per cent. of the material that was too big to go through the 40 sieve. This assayed 2 oz. per ton; so if you were to sieve 100 tons of the original, you would obtain 5 tons of material, which would contain 10 oz. of gold. So on with the other sizes.

It will be found that on adding up the last column of the lists in the report that the total amount of gold in 100 tons will not exactly equal the amount calculated from the assay of the original sample. The difference is due to experimental error,

any inaccuracies of weight being multiplied by 10 (as duplicates were always taken). The balance would not weigh to less than .001 grain ($\frac{1}{1000}$ of a grain) and an error of half this, viz., $\frac{1}{2000}$ th or .0005 grains when 600 grains are taken and the error multiplied by 10 will be between 5 and 6 oz., so that the experimental results are well within the limits of experimental error proving that some errors in weighing have counterbalanced other errors. In other words, some weighings were too high and others too low and these have partly neutralized one another.

I hope I have made this clear. The results are given really for reference to "reduction officers," who will, of course, understand the method in which the experiments are made and the bearing of their results.

RESOLUTION—dated 27th November 1888, No. 662.

Mr. Bosworth Smith's report on the Kolar gold field and its southern extension will be submitted to Government.

2. The report, which is well illustrated by maps and plates, is divided into five chapters dealing respectively with the topography, geology, petrology, mining and mineralogy of the tract. It is for the most part technical, but the following points will interest the general public—

- (1) The gold field begins to lose its value just as it enters the Madras Presidency;
- (2) The Kolar gold field has a future before it, but it is very doubtful whether the expectations originally formed of it will ever be realized;
- (3) The greater the number of old workings found on a block the more likelihood of success is there for the modern miner;
- (4) To mine for gold in granitoid gneiss on the Kolar fields is to court failure.

(A true Copy and Extract.)

M. J. C. S. S.
Secretary.

To the Secretary to Government, Revenue Department. *with 3 copies of Reports.*

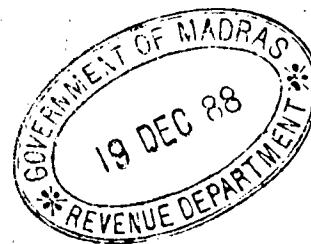
4 copies of Plates.

Maps in 11 folders

REVENUE DEPARTMENT.

1888.

Board of Revenue
(Revenue Settlement, Land Records
and Agriculture)
MADRAS.



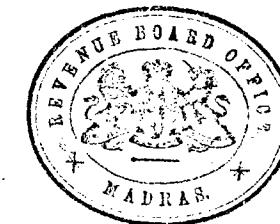
No. 8818

Printed December th.

Indy 19 - Genl

Proceedings, 27th Nov. 1888, No. 662.

Submitting to Government, with Board's
remarks, report of the Government Mineralogist
on the Kolar gold field and its southern exten-
sion.



Proceedings of the Board of Revenue
(Settlement, Land Records and Agriculture).

Dated 8th January — 1889.

No. 42 Mto.

W. Wilson, Esquire, M.A., C.S.

READ the following letter from the Superintendent, Madras
Survey, No. 555 dated 22nd December 1888:—

I have the honor to forward 50 copies of
each of 10 plates and 2 maps to
Reference, Proceedings of the Board
of Revenue (Settlement &c) No. 2476 & 2492 Antine dated 13th & 17th
December 1888, respectively, requesting
to send 50 copies each of the plates
and maps illustrating the report of the Government Mineralogist.

2. I beg to be informed if any more
copies are required, as otherwise the zinc plates
containing the impressions can be cleaned.
3. The compilation of the combined map
of Kolar Gold Fields has just been
finished and a proof copy is sent for approval.
4. The original drawings of the plates
and maps are with Mr. Roworth's Letter.

He

He has been asked to return them. On their receipt they will be sent to the Board.

Resolution

The proof forwarded by the Superintendent of Revenue Survey is approved and returned. It is requested that fifty copies of it may be furnished to the Board.

2 Two copies of each of the plates and maps received with the above letter will be submitted to Government in continuation of Board's Proceedings dated 27 November 1888. N 662.

3. Pending the orders of Government regarding the distribution of the report, the Board are unable to say how many copies of the plates and maps will be required. The zinc plates should, therefore, be kept standing.

(True copy & Extract)

28
 The Secretary to Government
 Secy. Dept.
 & Mr. Superintendent, Revenue Survey.
 K. J. Williams,
 Secretary

1887.

Board of Revenue

(Revenue Settlement, Land Records
and Agriculture),

MADRAS.

No 103

To

The Secretary to Govt.
Rev. Secy to

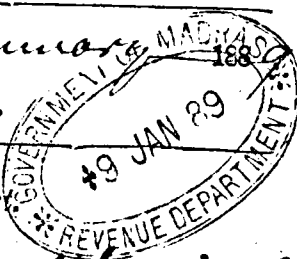
No. of Enclosures. *none received*

Proceedings, dated 8th January 1889

No. 427110

8th Jan 89

Subject



Approving and returning the
proofs of the illustrations for the
Government Mineralogist's report on the
Kolar Gold Field and its southern
extension and forwarding copies of the
plates and maps to Govt. with the
remark that the zinc plates may
be kept standing until it is known
how many copies of the illustrations
will be required.

NOTE FOR THE UNDER SECRETARY.
Cus 88/8.

Instructions solicited
as to whether this should
be circulated to H.E.
The Governor.

*25
20/04*

*Cus
H.E.*

No. 8818

From

The Board of Revenue

Dated

188

OR ORDERS.

Mr. Rosworth Smith's Report on the extensions of the Kolar Gold reefs into British territory is submitted for orders. The report appears to be chiefly of negative value, at least so far as the commercial aspect of the case is concerned, and the expenditure of Rs 25,000 or so on the Govt. Mineralogist has not been a very profitable investment.

It is suggested that Mr. Bruce Foote be asked to favor Govt. with his remarks on the Report.

HCS
14 Jan'y
CL
16/1

Yes. The report is very technical & has much practical value but I cannot see.

28/1 LHS C

HCS
20 Jan'y

FOR ORDERS.

Report of the Govt.
Mineralogist.

Cms 8818/88
.. 103/89.

Order N^o 743 of 10 Feb. 1889

The report will be forwarded
to Mr. Bruce Foster with the request
that he will favor Govt with
his remarks upon it.

Hes

4 Feb

Ch

12/2

To Mr. Bruce Foster Esq.
with report, please forward
to be returned.

Hon. Mr. Garstin
Hon. Mr. Stokes.
H. E. The Governor.

[7]

MISCELLANEOUS SERIES.

REVENUE DEPARTMENT.

G.O., DATED

188

No.

When given for copying

[Despatch Abstract.]

*Forwarding to Mr. Bruce
Fool for Kinnaird, Mr.
Eosworth Smith's report
on the Kolar Gold Fields.*