M.R.O. 1—77,000—6-5-37.

(1) Number of pages 26

(2) Date of repair 12-11-12

(3) Initials of the Repairer

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 1858-87 Press / Misc.

54-56

Dated 2-7 1887.

Not to be folded or roughly handled

No. 54. Read the following letter from Major J. BEATTY, R.E., District Engineer, Godavery, to Lieutenant-Colonel J. MULLINS, R.E., Officiating Secretary to Government, Public Works Department, dated Dowlaishweram, 5th June 1875, No. 779 :—

I HAVE the honor to forward herewith, for the information of Government, the report of Mr. Vanstavern, Executive Engineer, on the coal borings of this season. It is accompanied by a plan of the locality where the borings were made showing the position of the different holes, and a covering letter containing some additional information.

1 Report.
1 Plan.
1 Covering letter.

2. The operations of this season were carried on between 14th February and 28th May, and the most important results of the borings were as follow :—

In hole No. 5, at 181 feet, $6\frac{1}{2}$ feet of clay and shale were met with.

In hole No. 6, $6\frac{1}{2}$ feet of shale and coal were found at $177\frac{1}{2}$ feet.

In hole No. 8, 6 feet of mineral charcoal and clay were passed through at a depth of 151 feet.

And in hole No. 9, 2 feet of coal only of poor quality was discovered at a depth of $88\frac{1}{2}$ feet.

In hole No. 7, nothing of importance was met with.

The holes bored this season, Nos. 5, 6, 7, 8 and 9, were carried down to 209 feet 8 inches, $193\frac{1}{2}$, 286, 263 and 215 feet, respectively.

3. The total expenditure of the season on these boring operations in this district from February to June will probably amount to Rupees 6,785.

4. With reference to Mr. Vanstavern's suggestions regarding another season's work I have requested him to examine the stores there, such as corrugated iron for roofing, and let me have an estimate of the cost of erecting a permanent camp for the coal-boring party substantial enough to afford them good shelter through a rainy season, should Government decide, on the recommendations of the Geological Department, to have further borings made.

5. Mr. King of the Geological Department has been furnished with specimens of the coal, &c., found in the borings, and a copy of Mr. Vanstavern's report will now be sent him.

6. Mr. Vanstavern arrived here from Beddadanole on the 1st instant, and starts again tomorrow for Dumagudiem to relieve Mr. Weedon.

7. In my letter, No. 474, of 8th May, I suggested that Mr. C. Moore, the Assistant Superintendent of the borings, who was called* down from the Central Provinces with the sanction of Government to assist Mr. Vanstavern, should now accompany him to Dumagudiem where an Overseer or Supervisor is wanted. I request the favor of your instructions on this point, and how his pay should be charged until he is again required for the borings.

* *Vide* G. O., No. 2,346, of 20th August 1874.

8. The third-class Hospital Assistant, B. Venkataswamy, No. 1,054, who was with the party at Beddadanole has returned here in bad health, and asks for a month's privilege leave; after which I would propose placing him under the Civil Surgeon for general duty at Rajahmundry until his services are again required for the borings.

From T. VANSTAVERN, Esq., Executive Engineer of the Public Works Department, to Major J. BEATTY, R.E., District Engineer, Godavery, dated Dowlaishweram, 2nd June 1875, No. 20.

I HAVE the honor to forward you the report on coal-boring operations for this season.

In it I have merely alluded to the work done, but have refrained from any mention where further borings are to be put down, as my suggestions last season where further borings would be required and approved of by the Government seem to have given some umbrage to the Geological Department, although they have proved correct and are fully borne out by the sites selected by Mr. King, Deputy Superintendent, Geological Survey.

2. There is another matter connected with the work which I want to bring to your notice with a view of having more satisfactory results and at a less cost.

3. The work now is only prosecuted during the fair-weather months, of which the months of April and May are very hot at the place, and not much work can be got out of the people. I should, therefore, propose to work through the rains. I have done so at the borings in the Upper Godavery without any inconvenience.

4. The cost of the transport of tools from and to Dowlaishweram is heavy, and adds an additional cost to the work without its deriving any benefit from it, and now the tools cannot be left having no safe place to keep them in.

5. To obviate this I would propose a permanent camp.

6. By a permanent camp I mean cheaply-constructed buildings, with country (jungle) wood, corrugated iron roofing, and bamboo tattios for walls.

7. Corrugated iron would at first sight appear an expensive item; but is not so, as there is plenty of it in the Upper Godavery Store (now transferred to Madras), some standing in the books at a small valuation, and a very large quantity taken off the buildings in pretty good order standing in the books at no value, having already been paid for and charged to the works; nails are rather short; all doors and windows required can be got at Dumagudiem similarly standing at no value.

8. Wood there is abundant close at hand and cheap. The cost of the buildings for shelter during the rains would probably not much exceed the transport of the tools for one or two seasons.

9. Should you approve of my proposition, I can make out a sketch plan and get down the material required.

10. In the beginning of March Mr. King visited the camp for a few hours; since that I have not seen him nor yet heard what his intentions are for next season's work.

11. Mr. King has been furnished with samples of the coal passed through.

12. With the report I send a map showing the boring sites and also some of the coal from No. 9 boring.

Report on the Coal-boring operations at Beddadanole during the Season of 1875.

IN accordance with instructions received from Major Beatty, R.E., District Engineer, Godavery, I left Dowlaishweram on the 8th February last and arrived at Beddadanole with work-people and tools on the 12th and reported my arrival.

2. The first thing to be done was to sink a pit for water there being none at or near the place, *vide* my letter, No. 130, dated 12th February 1875 to the District Engineer.

3. The new tools telegraphed for in October 1874 by the Madras Government did not arrive at Beddadanole till the 17th of April last; this has caused some delay in the work.

4. On the 14th February the old tools were carried to the boring sites selected by Mr. King, Deputy Superintendent, Geological Survey, the triangles set up and work commenced.

5. One hole No. 5 W S W, 2,600 feet distance from the camp, commenced on the 14th February, was carried down to 219 feet depth; this hole began to cave in, and having no piping of sufficient length the boring was stopped and hole secured to await the arrival of the new tools, *vide* my letter, No. 1, dated 4th April; at the depth of 281 feet 2 inches, 6 feet 7 inches of shale was met with.

6. One hole No. 6 W by S 3,960 feet from the camp was commenced on the 14th February and carried down to 193 feet 6 inches; at the depth of 177 feet 4 inches, 6 feet 8 inches coal and shale was met with; this hole began to cave in, and for the want of piping I had to stop it; it was secured to await the arrival of the new tools, *vide* my letter, No. 142, dated 22nd March to the District Engineer.

7. On the stoppage of No. 6, No. 7 W ½ S, distance 4,370 feet from the camp, was commenced and carried down to 212 feet 6 inches, when it began to cave in; the new tools having arrived, piping was put down, and boring sunk to 236 feet depth; no coal was met with in this hole.

8. On the stoppage of No. 5 (the new tools not having arrived there) another boring No. 8, S E, 6,160 feet distance from the camp, was put down and sunk to 263 feet 3 inches, at which depth hard stone was met with; this hole being about 1,800 feet west of the out crop of gneiss the sand stone has probably been gone through. In this hole, at 150 feet 10 inches depth, 11 feet 1 inch of dark clay with mineral charcoal was gone through, and this hole being on the eastern edge of the coal basin is likely to be the outrun of a seam of coal.

9. On the arrival of the new tools I commenced a third boring No. 9 S W by S 2,080 feet distance from the camp, in this hole at 83 feet 6 inches depth 2 feet of coal (poor) was met with; the boring was continued to 215 feet depth.

10. The tools were moved into camp on the 28th May ready for transport to Dowlaishweram.

(Signed) T. VANSTAVERN,
Executive Engineer, P.W.D.

DOWLAISHWERAM,
2nd June 1875.

No. 5 Hole.

	FT.	IN.
Distance from camp	2,600	0
Bearing W S W.		
Level	116	1
Struck water at	30	0

	FT.	IN.
Surface soil	3	6
Sand stone, yellow	155	6
Clay, dark	12	6
Sand stone, brown	0	8
Clay, dark, 181 feet 2 inches	8	5
Clay and shale	6	7
Sand stone, brown	1	2
Iron pyrites	0	3
Conglomerate, fine	0	6
Clay, dark	19	1
Sand stone, brown	1	6
Total ...	209	3

No. 6 Hole.

	FT.	IN.
Distance from camp	3,960	0
Bearing W by S.		
Level	113	5
Struck water	30	6

No. 6 Hole.—(Concluded.)

	FT.	IN.
Surface soil	0	6
Sand stone, brown	151	6
Clay, light color, 177 feet 4 inches	25	6
Shale and coal	6	8
Clay, light	5	0
Do., dark	1	0
Sand stone, brown	3	6
Total	193	6

No. 7 Hole.

	FT.	IN.
Distance from camp	4,870	0
Bearing W ¼ S.		
Level	118	6
Stuck water	32	0

	FT.	IN.
Sand stone, brown	49	8
Clay, buff	5	0
Do., iron	0	8
Sand stone, brown	1	0
Clay, buff	5	0
Do., white	5	0
Do., brown	1	0
Do., varigated	2	0
Sand stone, brown	7	0
Conglomerate	1	0
Sand stone, brown	30	8
Clay, buff	3	3
Sand stone, brown	69	9
Conglomerate, fine	0	10
Sand stone, brown	30	8
Clay, varigated	6	8
Quartz	3	0
Sand stone, yellow	1	10
Clay, varigated	2	0
Sand stone, yellow	10	0
Do., white	3	0
Do., yellow	11	11
Do., „ (hard)	13	0
Do., white	10	6
Do., „	12	7
Total	286	0

No. 8 Hole.

	FT.	IN.
Distance from camp	6,160	0
Bearing S E.		
Level	110	1
Stuck water	24	0

Proceedings of the Madras Government, Public Works Department,
2nd July 1875.

No. 8 Hole.—(Concluded.)

	FT.	IN.	FT.	IN.
Surface soil	4	0		
Kunkur	2	0		
Sand stone, (brown)	19	0		
Clay, buff	4	0		
Sand stone (brown)	44	6		
Loose sand	0	6		
Sand stone (brown)	76	9		
			150	9
Clay and mineral charcoal	6	1		
Clay, dark	5	0		
Sand stone, brown	58	11		
Do., yellow	16	0		
Clay, dark	0	6		
Clay with mineral charcoal	6	0		
Sand stone, yellow (hard)	4	0		
Conglomerate (fine)	1	0		
Sand stone, yellow (hard)	2	3		
Clay, dark	4	0		
Sand stone (brown)	8	4		
Hard rock	0	2		
Total	263	0		

No. 9 Hole.

	FT.	IN.
Distance from camp	2,080	0
Bearing S W by S.		
Level	115	2
Stuck water	31	0

	FT.	IN.
Surface soil	1	6
Conglomerate (fine)	1	0
Sand stone, yellow	22	6
Clay, buff	4	0
Do., red	1	6
Do., brown	1	6
Sand stone, yellow	13	6
Do., red	2	0
Clay, buff	10	0
Do., varigated	23	0
Do., dark, 88 feet 6 inches	8	0
	2	0
Coal (poor)	13	6
Clay, dark	1	6
Sand stone, red	2	0
Do., argillaceous	16	6
Do., yellow	4	0
Clay, dark	2	0
Sand stone, yellow	41	6
Do., brown	44	0
Total	215	0

(Signed) T. VANSTAVERN,
Executive Engineer, P.W.D.

No. 55. ORDER THEREON, 2nd July 1875, No. 1,858.

CIVIL WORKS, No. 1.

WITH the above letter the District Engineer, Godavery, submits a report on the coal-boring operations at Beddadanole during the past season.

2. It is observed that five borings numbered 5, 6, 7, 8 and 9 were carried down to depths of 209 feet 8 inches, 193 feet 6 inches, 286 feet, 263 feet and 215 feet, respectively, with the following results :—

In No. 5, 6½ feet of clay and shale were found at 181 feet.
„ *No.* 6, 6½ feet of clay and shale were found at 177½ feet.
„ *No.* 8, 6 feet of mineral charcoal and clay at 151 feet.
„ *No.* 9, 2 feet of coal of poor quality at 88½ feet.

3. The cost of the season's operations amounted to Rupees 6,785.

4. The non-receipt of the new boring tools till the 17th April, six weeks before the operations were brought to a close, delayed the work.

5. The District Engineer reports that specimens of the coal and a copy of the report have been sent to Mr. King who will be requested to favor the Government with his views as to future operations.

6. The estimates referred to in paragraph 4 of the District Engineer's letter will be awaited.

7. Mr. Moore's employment in the Dumagudiem Range under Mr. Vanstavern until the borings may be resumed has already been approved in G. O., 25th May 1875, No. 1,427, and the Controller will report how his pay can in the meantime be provided for. The District Engineer can take this charge into account in submitting his promised* proposals for reduction of establishment.

* Proceedings, No. 1,641, dated 10th June 1875.

8. Major Beatty's suggestions for the disposal of the third-class Hospital Assistant will be referred to the Surgeon-General, Indian Medical Department.

(True Extract.)

Major, R.E.,
Offg. Joint Secretary to Government.

To the District Engineer, Godavery.
„ Controller of Public Works Accounts.
To W. King, Esq., Deputy Superintendent, Geological Survey.
To the Surgeon-General, Indian Medical Department.

Exd. E. C. Shunker.
Spare Copies

Govt. of (1875) Madras.

PUBLIC WORKS.

To

THE DISTRICT ENGINEER,

GODAVERY.

&c. &c. &c.

Dated July 3rd.

Issued

Encl. Encl.

G. O., 2nd July 1875, No. 1,859.

JULY.

Nos 54-55

Mr. Executive Engineer Venkatarama's report for 1874-75 on the coal-boring operations at Beddadanole.—Passing orders on the letter of the District Engineer, Godavery, submitting —.

PUBLIC WORKS DEPARTMENT,
OOTACAMUND, *2nd July* 1875.

No. 56.

No. 1,859.

FROM

MAJOR J. O. HASTED, R.E.,
Officiating Joint Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
Public Works Department.

CIVIL WORKS, No. 2.

SIR,—Adverting to the letter from the Under Secretary to the Government of India, Department of Revenue, Agriculture and Commerce, No. 24 (Minerals), dated 13th April 1875, I am now directed by the Honorable the Governor in Council to lay before the Right Honorable the Governor-General in Council a report of the results of the current season's operations on coal borings at Beddadanole in the Godavery District.

I have the honor to be,
Sir,
Your most obedient servant,

Major, R.E.,
Offg. Joint Secretary to Government.

Exd. E. C. Shunker.

Spare Copies

Govt. of India.

PUBLIC WORKS.

To

THE SECRETARY TO THE GOVERNMENT

OF INDIA.

Dated Forty Sixth

Dated

Rect.

Ans.

P. C. Ser. Aug 1876. No. 1859.

JULY.

No. 56

Forwarding a report on the results of the current season's operations on coal Outcrops at Bellichanda in the Godavery District.

No 20. Dowlaishweram

2nd June 1875.

From,

T. Vanstavern Esquire

Executive Engineer P. W. D.

To,

Major J. Beatty R.E.

District Engineer Godavery.

Sir,

I have the honor to forward you the report on coal boring operations for this season. In it I have merely alluded to the work done but have refrained from any mention where further borings are to be put down. As my suggestions last season where further borings would be required and approved of by the Government seem to have given some umbrage to the Geological Department although they have proved correct and are fully borne out by the sites selected by Mr King Deputy Superintendent Geological Survey.

2. There is another matter connected with the work which I want to bring to your notice with a view of having more satisfactory results

Store (now transferred to Madras); some standing in the books at a small valuation, and a very large quantity taken off the buildings in pretty good order, standing in the books at no value, having already been paid for and charged to the works; nails are rather short; all doors and windows required can be got at Dumagudem similarly standing at no value.

8. Wood there is abundant close at hand and cheap. The cost of the buildings for shelter during the rains would probably not much exceed the transport of the tools for one or two seasons.

9. Should you approve of my proposition I can make out a sketch plan and get down the material required.

10. In the beginning of March Mr. King visited the camp for a few hours, since that I have not seen him nor yet heard what his intentions are for next season's work.

11. Mr. King has been furnished with samples of the coal passed through.

12. With the report I send a Map showing the boring sites and also some of the coal from the 9 borings.

I have the honor to be

Sir

Your Most obedient Servt.

Wm Pearson

Executive Engineer P. W. D.

Report on the Coal boring operations at Beddadanole during the season of 1875.

In accordance with instructions received from Major Beatty R.E. District Engineer Godavery District — I left Dowlaishweram on the 8th February last, and arrived at Beddadanole with work people and tools on the 12th and reported my arrival.

2 The first thing to be done was to sink a pit for water there being none at or near the place, vide my letter No. 130 dated 12th February 1875 to the District Engineer.

3 The new tools, telegraphed for in October 1874 by the Madras Government, did not arrive at Beddadanole till the 17th of April last this has caused some delay in the work.

4 On the 14th February the old tools were carried to the boring sites selected by Mr. King Deputy Superintendent Geological Survey, the triangles set up and work commenced.

5 One hole No. 5 W. S. W. 2600' distance from the camp, commenced on the 14th February was carried down to 219' depth; this hole began to

to cave in and having no piping down a consi-
derable length the boring was stopped and tools
secured to await the arrival of the new
tools - vide my letter No 144 dated 23rd April; at the
depth of 281' 2", 6' 4" of shale was met with.

6. One hole No 11 by S. 2960' from the camp
was commenced on the 16th February and carried
down to 193' 6" at the depth of 177' 2" ——
6' 8" coal and shale was met with — this hole
began to cave in, and for the want of piping
I had to stop it; it was resumed to permit
the arrival of the new tools, vide my letter
No 144 dated 23rd March to the Executive Engineer

7. On the stoppage of No 6 - No 7 W. by S.
distance 4370' from the camp - was com-
menced and carried down to 212' 6"
when it began to cave in — the new tools
having arrived, piping was put down, and
boring sunk to 286' depth; no coal was met
with in this hole.

8. On the stoppage of No 5 (the new tools
not having arrived there) another boring -
No 8. S. E. - 6160' distance from the camp.
was put down and sunk to 263' 3" - at which
depth

depth hard stone was met with - this hole
being about 1800' west of the out crop of Gneiss
the sand stone has probably been gone through
in this hole at 150' 10" depth 11' 1" of dark clay with
mineral charcoal was gone through and this
hole being on the eastern edge of the coal basin
is likely to be the outcrop of a seam of coal -

9 On the arrival of the new tools I com-
-menced a 3" boring No 9 S. W. by S. 2080' distance
from the camp in this hole at 88' 6" depth -
2' feet of coal (poor) was met with - the bo-
-ring was continued to 215 feet depth -

10 The tools were moved into camp on
the 28 ulto ready for transport to Dowlaish -

I am &c
Executive Engineer P.W.D.

Dowlaishweram
2nd June 1875 -

No 5 Hole.

Distance from Camp 2600'

bearing N. 7. W.

Level 116' 1"

Stuck water at 30'.

Surface soil	3' 6"
Sandstone yellow	155. 6"
Clay dark	12. 6"
Sandstone brown	0. 8"
Clay dark 181. 2"	8- 5"
Clay + shale	6. 7"
Sandstone brown	1. 2"
Iron Pyrites	0. 3"
Conglomerate pipe	0. 6"
Clay dark	19. 1"
Sandstone brown	1- 6"
Total	209. 8"

No 6 Hole.

Distance from camp 3960'

Bearing N. by S

Level 113' 5"

Stuck water 30' 6"

Surface soil	0' 6"
Sandstone brown	151. 6
Clay- light Colour 177' 4"	25. 6
Shale & coal	6-8
Clay light	5. 0
Clay dark	1. 0
Sandstone brown	3. 6
Total	193-6

No. 7 Hole.

Distance from camp ——— 4870'

Bearing ——— N. ½ E.

Level ——— 118' 6"

Stuck water ——— 32.0

Sandstone brown	49' 8"	
Clay buff	5. 0"	
" Iron	0. 8"	
Sandstone brown	1. 0	
Clay buff	5. 0	
" White	5. 0	
" Brown	1. 0	
" Variegated	2. 0	
Sandstone brown	7. 0	
Conglomerate	1. 0	
Sandstone brown	30. 8	
Clay buff	3. 3	
Sandstone brown	69. 9	
Conglomerate fine	0. 10	
Sandstone brown	30. 8	
Clay variegated	6. 8	
Quartz	3. 0	
Sandstone Yellow	1. 10	
Clay variegated	2. 0	
Sandstone yellow	10. 0	
" White	3. 0	
" Yellow	11. 11	
" " (hard)	12. 0	
" white	10. 6	
" "	12. 7	
Total	286. 0	

No. 8 Hole.

Distance from camp ——— 6160'

Bearing ——— S. E.

Level ——— 110' 1"

Stuck water ——— 24' 0"

Surface soil	4'. 0"	
Kunkur	2. 0	
Sandstone (brown)	49. 0	
Clay buff	4. 0	
Sandstone (brown)	44. 6	
Loose sand	0. 6	
Sandstone (brown)	76. 9	150' 9"
Clay mixed Mineral Charcoal	6. 1	
Clay dark	5. 0	
Sandstone brown	58. 11	
" Yellow	16. 0	
Clay dark	0. 6	
Clay with Mineral charcoal	6. 0	
Sandstone yellow (hard)	4. 0	
Conglomerate (fine)	1. 0	
Sandstone yellow (hard)	2. 3	
Clay dark	4. 0	
Sandstone (brown)	8. 4	
Hard rock	0. 2	
Total	263. 0	

No. 29 Hole.

Distance from Camp ——— 2080'
Bearing ——— E.N.E. by E. ———
Level ——— 115-2"
Check water ——— 61-0

Surface soil		1' 6"
Conglomerate, fine		1 0
Sandstone, yellow		22- 6
Clay, white		4. 0
Clay, red		1. 6
Clay, brown		1. 6
Sand stone, yellow		13. 6
—"— red		2. 0
Clay, white		10 0
Clay, variegated		8. 0
Clay, dark —"— 55' 6"		8. 0
Coal, (poor)		2. 0
Clay, dark		13- 6
Sandstone, red		1- 6
—"— Argillaceous		2. 0
—"— Yellow		16. 0
Clay, dark		4. 0
Sandstone, yellow		2. 0
—"— Brown		41- 6
—"— Yellow		44- 0
Total -		215. 0

W. Ravenshaw
Executive Engineer P.W.D.

DISTRICT ENGINEER'S OFFICE, GODAVERY.

No. 779 DOWLAISEWARUM, 5th June 1875.

From

Major J. Scott, R.E.
District Engineer
Godavery District

To

Lieutenant Colonel J. Hobbes, R.E.
Secretary to Government D. P. W.
MADRAS

Sir,

I have the honor to forward herewith, for the information of Government, the report of the Executive Engineer on the coal borings of Pandaveru — I is accompanied by a plan of the locality, showing the positions of the different holes, and containing some remaining some additional information.

2. The operations of this season were carried on between 1st February & 28th May, and the result in part result of the borings were as follows:—

In hole No 5 at 181 feet, 6½ feet of clay and shale were met with.

In hole No 6, 6½ feet of shale and coal were found at 197 22 feet.

In hole No 8, 6 feet of mineral charcoal and clay were passed through at a depth of 157 feet.

No 5

...ted in hole No. 9, 2 feet of coal only of poor quality were discovered at a depth of 88½ feet.

In hole No. 7, nothing of importance was met with.

The holes bored this season Nos. 5, 6, 7, 8 & 9 were carried down to 209-8" 193½, 286, 263, & 215 feet respectively.

3. The total expenditure of the season on these boring operations in this District from February to June will probably amount to Rs. 6,785 - 0 -

4. With reference to Mr. Fauntleroy's suggestions regarding another season's work I have requested him to examine the seams there, such as corrugated iron for roofing, and let me have an estimate of the cost of erecting a permanent camp for the coal boring party substantial enough to afford them good shelter through a rainy season, should Government decide, on the recommendations of the Geological Department, to have further borings made.

5 Mr. King of the Geological Department has been furnished with specimens of the coal seams found in the borings, and a copy of Mr. Fauntleroy's report will now be sent him.

6 Mr. Fauntleroy arrived here from Beddanamole on the 1st inst., and starts again tomorrow for Dumagudem

Dumagudem to relieve Mr. Deacon.

7. In my letter No. 474 of 8th May, I suggested that Mr. E. Moore, the Assistant Superintendent of the borings, who was called down from Central Provinces with the sanction of Government to assist Mr. Fauntleroy, should now accompany him to Dumagudem where an Overseer or Supervisor is wanted. I request the favor of your instructions on this point, and how his pay should be charged until he is again required for the borings.

Received Aug. 20th 1874

8. The 3rd Class Hospital Assistant Mr. Venkataswamy No. 1054 who was with the party at Beddanamole has returned here on sick certificate, and asks for a month's privilege leave, after which I would propose placing him under the Civil Surgeon for general duty at Rajahmundry until his services are again required for the borings.

I have the honor to be,

Sir,

Your Most Obedient Servt

L. Beatty Major R.E.

District Engineer Godavery.

Public Works Dept.

Proceedings of the Madras Government

Under date the 1875

Read the following

From

The Dist. Engineer Godavery } No. 779 dt. 24th June 1875

Rec'd 1858 dt. 28th July/75

With the above letter the District Engineer Godavery submits a report on the coal boring operations at Beddadanole during the past season.

2. It is observed that 5 borings numbered 5, 6, 7, 8 & 9 were carried down to depths of 209 feet 8 inches, 193 feet

6

P. W. Sec. Rec'd. No. 2580

From

The District Engineer,

Godavery District.

To

The Secretary to Government

in the

Department Public Works

MADRAS

Dated, Draper's Yard 1875.

Received, 1875.

No. 779

Engineer's Office, Rajahmundry, 24th June 1875.

Subject.

Forwarding Progress Report of Boring operations at Beddadanole during the past season.

Sir,

I have the honor to submit herewith a Report on the Coal boring operations at Beddadanole during the past season.

2. It is observed that 5 borings numbered 5, 6, 7, 8 & 9 were carried down to depths of 209 feet 8 inches, 193 feet 2 inches, 227 feet, 221 feet, 232 feet respectively.

Copy sent to the Chief Engineer & Secretary to Government, Public Works Department, Madras.

Copy also to the Superintending Engineer, Trichinopoly.

Copy also to the Executive Engineer, Rajahmundry.

Cuttacks, 280 feet, 263 feet and 215 feet respectively with the following results.

In No. 5 6½ feet of clay and shale were found at 181 feet.

" No. 6. 6½ feet of clay and shale were found at 177½ feet.

" No. 8. 0 feet of mineral charcoal and clay at 151 feet.

" No. 9. 2 feet of coal of poor quality at 88½ feet.

3. The cost of the seasons operations amounted to Rs 8,785.

4 The non receipt of the new boring tools till the 17th April, six weeks before the operations were brought to a close, delayed the work.

5. The District Engineer reports that specimens of the coal and a copy of the report have been sent to Mr. King who will be requested to favor the Govt with his views as to future operations.

6. The estimates referred to in para 4 of the District Engineers letter will be awaited.

7. Mr. Moores employment in the Damaguderia Range under Mr Vanderveen until the borings may be

be reserved has already been approved in G.O. 25th. May 1875 No. 1127 and the Controller will report how his pay can in the meantime be provided for. The District Engineer can take this charge into account in submitting his proposals for reduction of establishment.

8. Major Beatty's suggestions for the disposal of the 3rd Class Hospital Assistant will be referred to the Surgeon General Indian Medical Dept.

Jvq

12-52-56

Dated

x Proceedings No. dated

To DE Godavery 8
" Cntr Purchase 14
" King Engr - 2
" Surgeon Genl Ind Med Dept 2
S. C. - Noted
13-7-75

No. 1859 of 2nd July 1875

To The Secretary to the
Govt. of India
Br. D.

Sir,

Adverting to the letter from the Under Secretary to the Government of India, Department of Revenue, Agriculture and Commerce, No. 24. (Minerals) dated 13th April 1875, I am now directed by the Honorable the Governor in Council to lay before the Right Honble the Governor General in Council a report of the results of the current season's operations on Coal boring at Beddadanole in the Godavery District.

25 Sc 9 Sh 6 d
1858 Y 6 Sc 8
Letter with 3 copies
& 50 Nos 1641 Y — 1127 Noted
13-7-75

Jvq

3900

Govt. of India Madras.

PUBLIC WORKS.

To

The Secy. to Govt.

Judicial

&

Dated

From W. Thompson Esqr.

Dated

Rec'd

A. G. No. 2 Dated 1875 No. 185-8
185-9

Read No. 52-55-
-56

Forwarding a report of the results of the current season's operations on Coal boring at Nedadavole in the Godavery District.

With Executive Engineer Ramatanem's report for 1874-75 on the coal boring operations at Nedadavole. — Orders on the letter of the District Engineer, Godavery, are awaited.