

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	3053	Press
B.P. No.		Mis.
Dated	14-11	28 76 195

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
14th November 1876. No. 3,053.*

No. 247. Read the following letter from Major J. BEATTY, R.E., Officiating Superintending Engineer, Godavery, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Dowlaishweram, 31st October 1876, No. 2,165:—

As directed in G.O., No. 2,556, of 25th September 1876, I have the honor to forward herewith Mr. Vanstavern's estimate of the cost of sinking a shaft 10 feet interior diameter and 200 feet deep at Beddadanoole at any spot selected by the Geological Department.

2. The estimate provides for steining the whole depth of the shaft, and for pumping out the large in-flow of water expected. It amounts to Rupees 14,705, of which Rupees 10,830 is for machinery and tools.

3. The cost of conveying the coal to Dowlaishweram would be about $4\frac{1}{2}$ to 5 Rupees per ton.

No. 248. ORDER THEREON, 14th November 1876, No. 3,053.

CIVIL WORKS, No. 18-A.

THE consideration of this project will be postponed for the present. When again taken up it will be ascertained whether it may not be carried out with a smaller shaft and less costly gear.

(True Extract.)

Major-General, R.E.,
Secretary Government.

To the District Engineer, Godavery.
To Mr. King.
To the Public Department.

Exd. E. C. Shunker.
Spare Copies

Every 5 ft excavated the planking being supported

P. W. D

DIVISION

ESTIMATE No. 1904/18677

Estimate framed by

the probable expense of local boring operations at Badu da-
Nile.

Dated 24th October 1876

REFERENCES

DOCUMENT-

Prescription and number.	Date.	From	To	Subject.	REMARKS.
D. C.		Superior Executive		Regarding	
		Engineering		Engineers	
		Engineers		Damage to the coal burning	
		Coalburn Division		at Cadadahuta	
		District G. R.			

Report and Specification.

A shaft is required to be sunk at Badadanole the form and size I would propose is round 9 ft diameter in which if necessary the guides for the cage could be fixed at four points thus leaving four bays clear for pump gear. The ground at Badadanole consists largely of clay it would therefore be necessary to line the whole of the shaft this can be easily done with planking at every 5 ft excavated the planking being supported

with the inner hoops of angle iron. The angle iron would also answer to fix on the brackets for support of the pumps.

The ground at Badildare is low apparently the bed of an ancient river the sand stone is porous and water struck at from 25 to 30 ft from the surface so that a large inflow of water may be expected.

The stone being soft it can be quarried without blasting. The shaft when being sunk will have to be lined as the excavation goes on. The excavation must be carefully done so that little filling in will be required the lining is constructed with 2" planking 5 ft long 8" broad set up against the side and this secured by inner hoops of angle iron these should be made of two pieces so as to fit in easily the planking in some parts secured to them and then the space at back of planking rammed in with earth then another 5 ft excavated and again secured and so on for the depth required to raise the excavated clay and quarried stone a triangle over the mouth of shaft with chain tube and winch will be required.

The shaft would at least have to be sunk to 200 ft and the estimate has been framed of the cost of an engine and pumps. This engine however would only be available for pumping and not for hoisting to some any difficulty of transport a portable engine has been estimated for cost and of estimate I have made a statement of the cost of shelter and the monthly cost of establishment and stores.

In the calculation for excavation and quarrying the diameter of the shaft has been taken as 10 ft so that when lining and hoops are in 9 ft will be left clear.

The time required to sink the shaft will be from 2 1/2 to 3 months should no accidents occur. The estimate for labour has been framed for one month only.

W. W. W. W.
Executive Engineer
Deena gudem D. G. D.

DETAILS OF WORK.	Number.	MEASUREMENT.			QUANTITIES.		
		L.	B.	H.	Content or area.	Total.	Grand Total.

Machinery

Triangle with fittings	1				1	1	
Crook winch fitted with							
leadings friction pulley	1				1	1	
2" fly block	1				1	1	
5/8" inch Chain	200				200ft	200ft	
Iron tub with fittings	1				1	1	
12 H.P. double Cylinder							
Portable Engine Complete	1				1	1	
Pump to lift water from							
200ft depth double lifting	1				1	1	
with brace & to gearing	Complete						

Tools

Large Hammers	4				4	4	
Tomatoes	12				12	12	
Steel pointed Crowbars	12				12	12	
Blue Rets	4				4	4	

Fittings for shaft

Planking for lining	20' 30' 2"				1000ft	1000ft	
---------------------	------------	--	--	--	--------	--------	--

67. - 3" angle iron hoops
for support of lining with two
couplings included 38' each

2546 Rft. Wg 10 1/4 lbs per foot

= 26,488.5 lbs including

labour of curving & screw

bolts & anchoring

the the
26,488.5 26,488.5

P.W.D.

CHARTER

8051

AMT. 1913.

DETAIL OF WORK.

MEASUREMENT.

Number.	L.	B.	H.	Content of area.	Total.	Grand Total.
1/2 Mod. Series				700	700	
Labour for one month				700	700	
for during engine, night & day						
and removal of material for						
1 shift in the day time						
Engine drivers	2			2	2	
Stokers	2			2	2	
Lancers	6			6	6	
Bullock bandy	1			1	1	
Superintendent	1			1	1	
3rd Hospital App	1			1	1	
Lancers	2			2	2	
Poons	2			2	2	
Blue Kacith st	1			1	1	

Excavation

Rate at every 5 feet of depth 9

Rate every 5 ft	Amount	Rft	Rate every 5 ft	Amount
0/4/0	1 4 "	125	3/4/0	202 8 "
0/6/0	1 14 "	130	3/6/0	16 14 "
0/8/0	2 8 "	135	3/8/0	17 8 "
0/10/0	3 2 "	140	3/10/0	18 2 "
0/12/0	3 12 "	145	3/12/0	18 12 "
0/14/0	4 6 "	150	3/14/0	19 6 "
1/0/0	5 "	155	4/0/0	20 "
1/2/0	5 10 "	160	4/2/0	20 10 "
1/4/0	6 4 "	165	4/4/0	21 4 "
1/6/0	6 14 "	170	4/6/0	21 14 "
1/8/0	7 8 "	175	4/8/0	22 8 "
1/10/0	8 2 "	180	4/10/0	23 2 "
1/12/0	8 12 "	185	4/12/0	23 12 "
1/14/0	9 6 "	190	4/14/0	24 6 "
2/0/0	10 "	195	5/0/0	25 "
2/2/0	10 10 "	200	5/2/0	25 10 "
2/4/0	11 4 "			
2/6/0	11 14 "			
2/8/0	12 8 "			
2/10/0	13 2 "			
2/12/0	13 12 "			
2/14/0	14 6 "			
3/0/0	15 "			
3/2/0	15 10 "			
202 8 "				

Total Rs 537 8 "

Abstract of expense on Coal boring Operation at Badadauole

Contents	Particulars	Rate	Per	Amount	Total
	Machinery				
1	Triangle with fittings	20	Each	20	" "
1	Crab winch fitted with leadings & friction pulley	50	"	50	" "
1	Fly block	7	"	7	" "
	200ft 5/8" chain at 6 1/2 per cent	13 8	Cent	87 1/2	" "
1	Iron tub with fittings	25	Each	25	" "
1	12 H.P. double cylinder Portable engine Complete	3600	"	3600	" "
1	Pump to lift water from 200ft depth - double 4" piping with brackets gearing Complete	1900	"	1900	" "
	Fright from Calcutta	400	"	400	" "
	Landing and Carriage to Badadauole	340	"	340	" "
	Tools				
12	Momoties	2	Each	24	" "
12	Steel pointed Crowbars	2 1/4	"	27	" "
4	Large Hammers	1 1/2	"	6	" "
	Carried over Rs			6486 1/2	" "

P.W.D.

8051

8051

PUBLIC WORKS DEPARTMENT.

Letter from the Off. Superintending Engineer,
Godavery, No. 2165 dated 31. Oct 76.

FOR ORDERS. with the original
file of G.O. No. 2556 dated
25. September 1876.

Comptroller Major General
Secretary to Govt. M.D.

Engineering Division
Godavery District

Estimated Rs. 198/1876/77
for coal boring operations
at Badadacole, amount
paying to Messrs 12483/0/0

certainly - The expense is
far too large - but when the
consequence - it will probably be
found unnecessary to sink
so large a shaft - or such
early year 1877

Mr. R. B. V. B.
FOR ORDERS.

His grace the Premier

8051

Godavery

No. 2165 District Engineer's Office, Gody.
Dowlaisluveram 31st October 1876.
From, *Sept 12 November 76*

Major J. Beatty R.E.
Offr Supr Engineer Godavery Dt

To,
Major General G. W. Walker R.E.
Secretary to Government P.W.D.

Sir,
As directed in G.O. No. 2556 of 25th Septem-
ber 1876, I have the honor to forward herewith Mr. A.
Vanstavern's estimate of the cost of sinking a shaft,
10 feet interior diameter and 200 feet deep at Red-
dadanoole at any spot selected by the Geological
Department.

2. The estimate provides for steining the
whole depth of the shaft, and for pumping
out the large inflow of water expected. It
amounts to Rs 14,705, of which Rs 10,830 is for
machinery and tools.

3. The cost of conveying the coal to Dow-
laishuveram would be about $4\frac{1}{2}$ to 5 Rupees
per ton.

J.

I have the honor to be,
Sir,

Your Most obedient Servant
L. Beatty Major R.E. No 8051

Offr Supr Engineer Godavery.

P.W.D.
8 NOV 76

From,
The Offr Supr Engineer
Godavery Distt
To, The Secretary to Govt.
P.W.D. Deptt.
Dated 31st October 76
No 2165
Beddandole Coal
boring - As directed
in Q.O No 2556 of
25th ultimo, forwards
an estimate for
a shaft etc. at -

QO 31-8-76 No 2339
25-9-76 .. 2556
13-10-76 .. 2742

No 247

Aug-11-76
Compd by 88

No 3053

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

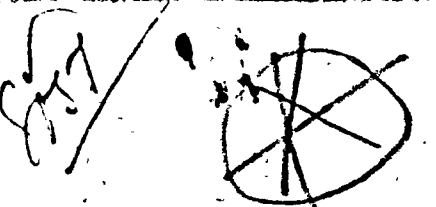
Under date the 14 Nov/76
Read the following :-

From the Superintendent,
Godavery - (P.E. No 2165 of 31st Oct/76)

The consideration
of this project will be
postponed for the present.
When again taken up
it will be ascertained
whether it may not be
carried out with a smaller
shaft and less costly
gear.
L.M.N.

L.R. Godavery
By *L.M.N.*
20-11-76

25/1/00



Gobt. of 1876 Madras.
PUBLIC WORKS.

To

The H. B. Godavery

15-11-76

Dated

Issued

Recd

Encl.

G. O. 11-11-76 No. 3053

Nos. 217/8

Drinking new shaft at
the Wooddudamole Coal
fields, Godavery Dist.

The project for — post-
—poned for the present.

But no Rep.
21-11-76