M.R.O. 1—77,006—8-6-37.

(1) Number of pages 16

(2) Date of repair 20.12.59

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Ellu — 20/12/59

G.O. No. 2888 Press Mis.

25 26

Dated 13 — 12 — 1859.

Not to be folded or roughly handled

29/12/59

No. 25. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer; to J. D. BOURDILLON, Esq., Secretary to Government, dated 22nd November 1859, No. 7522.

With reference to paragraphs 4, 5, 6 and 7 of the Proceedings of the Madras Government, No. 2365, 4th October 1859, regarding lighters for the removal of the soil raised by the steam dredge at Paumbem, I have the honor to forward a plan and estimate, amounting to Rupees (5,000) five thousand, for the construction of four mud lighters.

2 Original letters from the District Engineer, Madura, Nos. 681 and 792, dated 10th and 31st October 1859.
1 Plan.
1 Abstract estimate.

2. These lighters will hold twice as much as the hired donis, causing thereby a saving in the time, consumed in bringing them along side and under the slide and in needlessly raising the mud and sand out of the boats, (performed by convicts), and dropping it into the sea; the lighters will in consequence make nearly three trips to two of the old donis, and holding twice as much as a dony. The quantity of mud and sand removed will be 3 to 1 nearly in favour of the new mud lighters now proposed. The number of lighters will, therefore, be one-third of the number of donis required and there will be a proportionate saving in crews and superintendence as per annexed statement of 150 per cent., which in one and a half year would cover the cost of the construction of the 4 lighters.

3. I would beg, therefore, strongly to recommend the construction of the four mud lighters proposed by the District Engineer in the accompanying estimate, amounting to Rupees (5,000) five thousand, and to solicit the sanction of Government for its entry in the budget for 1860-61.

Statement comparing working expenses per annum of hired donis and proposed lighters, one of the latter does work equal to three of former, working season 8 months, viz., January to April and August to October inclusive, working days per mensem 20.

Hired Donis 3.	Rs.	A.	P.	Proposed Lighter 1.	Rs.	A.	P.
3 Donis, 8 months, at 18 Rupees.	432	0	0	Interest and depreciation on 1,250, at 20 Rupees per cent	250	0	0
10 Boatmen do. at 6 Rupees.	480	0	0	1 Boatman, 12 months, at 7 Rupees.	84	0	0
18 Convicts, 160 days, at 1½ Annas...	240	0	0	4 Do. 8 do. 6 do.	192	0	0
Rupees.....	1,152	0	0	2 Mamotty men for 160 days, @ 2⅝ Annas	26	10	8
Repairs, 8 months, at 15 Rupees per Dony	360	0	0	Small stores and sundries	47	5	4
Per annum.....	1,512	0	0	Rupees.....	600	0	0

(Signed) J. G. RYVES,
District Engineer, Malabar.

No. 26. Order thereon, 13th December 1859, No. 2888.

In their review of the report for the year 1858-59 on the operations at Paumbem, the Government remarked that it was admitted that the results had not been commensurate with the outlay, and noticed (paragraph 7) the District Engineer's proposal to build a few spoil boats in order to lessen the expenditure and, at the same time, facilitate the work in progress.

2. With reference thereto, the Chief Engineer submits, with the letter now before Government, a plan and estimate of Rupees (5,000) five thousand for the construction of four lighters to remove the material raised by the dredge.

It is shown that by the use of these boats both time and labour, as well as money will be economized. With a smaller establishment, each of the proposed lighters will remove per day

as much as three donis, in place of which they are to be employed ; and it is calculated that in a year and a half, the saving that will be effected in their employment, will cover their first cost.

3. The proposed measure seems a very desirable improvement, and for the reasons stated above the Government sanction the estimate for entry in the budget of 1860-61. The entry will be made in the Government office.

4. The Government observe that the District Engineer thinks* that operations may be carried on between 1st August and 10th October in addition to the 4 months specified in the order of the 4th October.

* Letter dated 31st October 1859.

(Signed) J. D. BOURDILLON,
Secretary to Government.

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Central Office of P.
Fort Saint George
22. November 1859

N°. 7522

From,
The Chief Engineer.

To,
The Secretary
to Government P.W.D.

Sir,

Public.

With reference to paras 4. 5. 6 and
the Proceedings of the Madras Government. N°. 2365
4th October 1859 regarding Lighters for the removal
of the soil raised by the Steam Dredge at Tambaram, I
the honor to forwardin a Plan and Estimate amount
to Rupees 5000/ Five thousand, for the construction
four Mud Lighters.

Enclosures to
2 Original letters from the District Engineer Nos. 1761 and 62 dated 10th and 31st Octr.
1. Plan.
1. Detailed Estimate

2. These Lighters will hold twice as mu
as the hired Dhonies, causing thereby a saving in the
time, consumed in bringing them alongside and un
the slide, and immediately raising the mud and sand
~~out~~ the Boats performed by Convicts and dropping
into the sea,-the Lighters will in consequence make
nearly three trips to two of the old Dhonies, and holdi
twice as much as a Dhoney. The quantity of mud

and

and sand removed will be 3 to 1 nearly in favor of the new Mud Lighters now proposed. The number of Lighters will therefore be one third of the number of Dhonies required and there will be a proportionate saving in crews and superintendence as per annexed Statement of 150 per cent, which in one and a half year would cover the cost of the construction of the 4 Lighters.

3. I would beg therefore strongly to recommend the construction of the four Mud Lighters proposed by the District Engineer in the accompanying Estimate amounting to Rupees 5000 / five thousand, and to solicit the sanction of Government for its entry in the Budget for 1860/61.

I have the honor to be,
Sir,
Your most obedient servant
Lieut.t Colonel
Chief Engineer

Port Saint George
22 November 1859

A.B. Lieut.t Colonel.
D.y Chief Engineer's Circle.

To,
The Secretary to Government
Public Works Department

Ex. Ikay

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Statement comparing working expenses per annum of hired Dhonies and proposed Lighters - one of the latter does work equal to three of former - working Season 8 Months. viz. January to April and August to October inclusive. working days per mensem 20.

Hired Dhonies 3.		Proposed Lighter 1	
3. Dhonies 8 Months at 18 Rupees	432	Interest 5% Depreciation on 1250 at 20 Rs. per cent	250
10. Boatmen D.o at 6 Rupees	480	1. Salman 12 months at 7 Rupees	84
18. Convicts 160 days at 1½ Annas	240	4. D.o 8 D.o 6 D.o	192
Rupees	1152	2 Inamotty men for 160 days @ 2½	26-8
Repr.s 8 Months at 15 Rupees per Dhony	360	Small Stores and Sundries	47-5-4
per annum	1512	Rupees	600

/Signed/ J. G. Reyes.
Dist.t Engineer. Madura.

Buildings [New Work]

Abstract of Estimate No of 185 .5

District Madura

Work, Constructing Mud Lighters for Dredge at Rumbeu-

Quantities	Description of Work	Rate			Amount	Amount for each part
C. Yds.		Rs	As	P.	Rupees	Rupees
	15 Pairs Curved ribs & Sleepers Each	4	8	"	68	
	14 do do bow & Stern do	3	"	"	42	
	29 Key pieces do	"	14	"	25	
850 Sup. Ft.	2" Planking to boat Sup. Ft.		21	"	179	
185 "	1½" Do to Deck "		16	"	29	
125 "	2¼" Do to Mud box "		24	"	30	
275 "	1½" Do to Do "		18	"	50	
120 Cft.	Teakwood wrought Cft.		2	4	"	270
17 "	Jungle wood do do		1	8	"	26
	400 Large Spike nails Rs. 100		4	"	"	16
	3000 Smaller do 100		1	8	"	45
	1 Pair Large hinges		"	"	"	25
1½	Barrels of Tar Each		30	"	"	45
10	Tolams Iron do		1	8	"	60
	Labour					
6	Carpenters for 1½ Months					94
15	Laborers Do Do					79
3	Smiths Do Do					17
					Carried Over	1130

Rec'd 4th October 1854

Dy No 1859 Establishment
Dated 25th September 1854.
No. 3052.

From The Civil Engineer.

To The Civil Engineer.
Pamben.

Dated 27th November 1854.
No. 23.

Rec'd 3rd Dec. 1854.
No 2858-13. Estimate.

Submits for sanction and entry in the Budget for 1855/6 a Plan and Estimate amounting to Rupees 1130 for constructing Mud Lighters for the Steam Dredge at Pamben in the Madura Dist.

Dec 1854

Quantities	Description of Work	Rate			Amount	Amount for each part
C. Yds.		Rs	As	P	Rupees	Rupees
	Brought Over				1130	
	3 Caulkers for 1 Month				45	
	Mooring Tackle & Sundries				75	
	Total for one Boat				1250	
	Total Rupees for 4 Boats				5000	

Central Office of P.W.D.
Fort Saint George
22 November 1859.

Lieut.-Colonel
Chief Engineer P.W.D.

Enclosure

In a letter

From,
The Chief Engineer
D 0 h—

To,
The Secretary to Govt.
D 0 h—

DO 3052/59

Dated 22
Received 3 Nov. 1859

No. 7522

Abstract Estimate for Constructing Mud Lighters for dredge at Paumben in the District of Madura—

Amounting to Rupees 5000—

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No A 2888

Proceedings of the Madras Government
Under date the 13th Decr 1859
Read the following
Letter from the Chief

Submits for sanction
and Lending in Abstract
for 1800/61 a Plan and
Estimate amounting
to Rupees 5000 for constructing
Mud Lighters for the Steam
Dredge at Pamben

Received 22nd Nov 59
No 7522

In their review
of the report for the
Year 1858/59 on the
Pearlfisheries at Paum-
ben, the Govt. remarked
that it was admitted
that the results
had not been com-
mensurate with
the outlay, and
noticed (para 7) the
Chief Engineers pro-
posal to build a
few

few spoil boats in
order to lessen the
expenditure and,
at the same time,
facilitate the
work in progress.

2. With reference
thereto, the Ch.
Engr. submits, with
the letter now before
Govt., a plan and
estimate of Rs
5000/ five thousand
for the construction
of four lighters to
remove the material
raised by the dredge
It is shown that
by the use of these
boats both time
and labor, as well
as money will
be

be economized. With
smaller establishmen
each of the propos
lighters will remov
per day as much
as three dinis, in
place of which th
are to be employe
and it is calculat
that in a year or
half, the saving
that will be effecte
in their employment,
will cover their first
cost.

3. The proposed
measure seems a
very desirable im-
provement, and for
the reasons stated
above the Govt. sanction
the estimate for execution
in the Budget of 1864/65.
No entry can be made in the
Government Office. The

1 The Govt. observe
that the Court of Engr
Chiefs that operations
may be carried on be-
tween 1st August & 15th
October in addition
to their monthly esti-
mates in the
order of the
1st Section

Lieut. dated 31st October 1837.

10 Copies to the Chief Engineer
Sept 14

Public Works 1859 Dept.
Pro: of Govt. 20th Dec.

No 2888.

Pro: of the Madras Govt.
Dt 13th Dec: 59.

Sanctioning for
entry in the budget of
1860-61 an Estimate of
Rupees 5000 for constructing
four Lighters to remove
the material raised by
the dredge at Pamben

No 25 to 26.