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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2138 (W)	Press
B.P. No.		Mis.
Dated	16-8-	18 76 .

Not to be folded or roughly handled

No. 368. Read the following letter from N. St. B. BEARDMORE, Esq.,
Officiating Superintendent, Madras Harbour Works, to Major-General
G. W. WALKER, R.E., Secretary to Government, Public Works Department,
dated Madras, 28th July 1876, No. 53-W. :—

I HAVE the honor to report, for the information and orders of Government, that
the office establishment of the Superintendent, together with that of the Assistant
Engineer, sanctioned in G.O., No. 1,433, dated 25th May 1875, amounting to Rupees
262 a month, have been found from experience to be very inadequate to carry on the
work of the office efficiently.

2. In a work of such magnitude and importance as the construction of this
Harbour, the amount of correspondence and number of accounts in connection with it
are considerable, and the work has already begun to show itself.

3. During the year ended 30th June, there have been 1,027 letters received,
and 1,121 written, and these have all had to undergo a system of registration, taking
up the time of more than one clerk. There have been from twenty-five to thirty different
accounts, statements, &c., to keep, and render monthly to the Examiner of Public
Works Accounts, and the vouchers in connection with them amount to ninety-three
for the month of June.

4. As the Superintendent has continually to visit various parts of the work, and
give his whole time and attention to the progress thereof, the employment of an
experienced Managing Clerk in this office is very necessary. Such has been found in
Mr. E. D'Caster, who renders valuable assistance in performing the general routine
work of the office in a systematic and efficient manner. Mr. May, in a letter dated
December 31, to the Examiner of Public Works Accounts, recognizes his service
thus :—

“ The six months' probation upon which Mr. D'Caster was sent to my office terminate with
this day. I am very favorably impressed with the intelligence, capacity and trustworthiness he
has evinced in conducting the business of the office, of which he bears the largest share. I am
perfectly satisfied with his conduct and wish to retain him permanently.”

He holds good testimonials of character and qualification for office work; has
passed several examinations, including the Higher Standard in English Precise
Writing.

5. He is at present very poorly paid for the work he does, which is arduous,
including much work after office hours. I venture therefore to recommend him for
the proposed appointment, and request that he be allowed the salary of Rupees 120
per mensem, rising by annual increments of Rupees 20, until the maximum salary of
Rupees 200 is reached.

6. I may mention that the late Mr. May before his death entrusted me to make
this application.

7. I enclose a Tabular Statement, giving the Superintendent and Assistant Engi-
neer's Establishments, and showing the addition proposed.

No. 369.

ORDER THEREON, 16th August 1876, No. 2,138.

ESTABLISHMENT, No. 18.

HIS GRACE the Governor in Council is not prepared to authorize the large addition proposed to the office of the Superintendent of the Harbour Works without further and independent testimony as to the necessity for the increased cost. The Examiner of Public Works Accounts and the Deputy Chief Engineer will accordingly, after investigation, report whether the work, taking the average of the last six months, is beyond the power of the sanctioned establishment; and, if so, to what extent and at what cost it should be supplemented.

(True Extract.)

Colonel,
Offg. Under Secy. to Govt., P.W.D.

To the Examiner of Public Works Accounts.
" Superintendent, Madras Harbour Works.
" Deputy Chief Engineer.

Read the following papers:—

No. 439. From W. PARKES, Esq., to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 4th December 1873.

In reply to the question contained in G. O., No. 2,925, of 4th December 1873, I would beg to submit my opinion that if a thoroughly responsible Contractor can be found who would undertake to carry out the works of the proposed harbour for a reasonable sum, they would be most economically and expeditiously completed by that means. But if his tender exceeded materially my estimate (less 15 per cent. for contingencies and superintendence), say, £500,000, I should be disposed to dispense with the services of a general contractor and carry out the work under the Government Engineers.

2. But even in this latter case I am of opinion that in a work of so special a character, and for which officers and foremen of special experience would have to be engaged, it would be better that the whole staff should be independent of the Public Works Department organization and responsible to the special authorities of the work alone.

3. In such case, and assuming that the Government would entrust me with the organization of the work and appoint me Engineer-in-Chief, the following would be the staff, subject to modifications of detail:—

	PER ANNUM.
	£
1. Engineer-in-Chief (in England)	500
2. Superintendent of Works	1,500
3. Assistant (European)	600
4. Two Native Assistants	500
5. Clerks, Peons, &c.	400
6. Extraordinary expenses, say	500
Total	4,000

The expenses of foremen on the work are included in the rates on which the estimate is based.

4. Should the work be let by contract, as above proposed, the annual cost of the Government Engineering establishment would be reduced by from £500 to £1,000 by modifications of the three last items.

5. The Engineer-in-Chief would have the general direction and control, and would arrange the supply of stores and plant from England. The £500 per annum would cover all his services in England, except actual travelling expenses on duty and a bonus of £500 for the extra duties consequent on starting the work, designing plant, &c., payable when the concrete block work is fairly started.

6. The Superintendent would be recommended by the Engineer-in-Chief, and would have general control on the spot and would be responsible in all Engineering matters to the Engineer-in-Chief, in all other matters to the ordinary Government authorities. The subordinate officers would be under his entire control.

7. I would submit to the favorable consideration of the Government the appointment, in addition to the above staff, of a Committee of Government officials and merchants, to whom the Engineers might be locally responsible and through whom any communication with the Government would be made. I would suggest, as an illustration of

my meaning rather than as recommending it in detail, the following as the composition of the Committee:—The Chief Engineer of the Presidency, the Master Attendant, an Officer of the Treasury, and two merchants. The Engineer-in-Chief and Local Superintendent of the Works would correspond with this Committee (or their Secretary) more conveniently than with any existing Government department. Where appeal to the Government might be required it would be made by the Committee to the proper department.

8. The Government Order under reply refers me to my experience of the conduct of the Kurrachee Harbour Works. The above suggestions are not altogether in accordance with the precedent of Kurrachee, as in that case the whole of the executive staff is attached to the Public Works Department, and had been so before I was appointed Consulting Engineer. But although in that case the arrangement has worked well, it is a precedent which I do not think should be extended to a case so different as that of Madras. There is too much "divided responsibility." The arrangement I have proposed, is however, in its main features similar to that established in other cases where it has been found to be successful.

No. 440. From W. PARKES, Esq., dated 13th March 1874.

No. 441. From W. PARKES, Esq., to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 31st March 1875.

As I understand the Government of Madras have given a general approval to the scheme for the superintendence of the proposed harbour works put forward in my memorandum, dated 4th December 1873, I would now beg to present in a somewhat more complete form the terms and conditions I would propose for my own appointment as Engineer-in-Chief.

In the abovementioned memorandum I stated—

"The Engineer-in-Chief would have the general direction and control and would arrange the supply of stores and plant from England. The £500 per annum would cover all his services in England, except actual travelling expenses on duty and a bonus of £500 for the extra duties consequent on starting the work, designing plant, &c., payable when the concrete block work is fairly started."

I would now beg to confirm this proposal, and to add to it the suggestion that the engagement should be held to commence on the date of my approaching arrival in England, and to terminate, unless otherwise arranged, on the expiration of the quarter following that in which the second pier head shall have been completed, with the exception of the lighthouse, the construction of which it may be desirable to delay till the work has settled.

The above rate of remuneration applies only to services in England. Should it be necessary for me to visit Madras during the progress of the works, I would propose, following the precedent of my connection with the Kurrachee works, an extra payment of £160 per month with all travelling and personal expenses as usual.

With regard to the probability of such visits being required, my aim will be to make such preliminary arrangements as will reduce this to a minimum; but I would

request that whenever the question of the necessity of such a visit may arise, the determination of it may be left to my own discretion, subject to the approval of the Secretary of State, and not be dependent on a special reference to Madras. My reason for this is that the grounds of the necessity or desirability of such a visit might be of a nature which it would be impossible to make clear in an official communication to the Government of Madras without defeating the very object of the visit. It is probable that, as the works advance, a personal inspection may be necessary to enable me to maintain my knowledge of the new conditions which will be constantly arising; but periodical visits are no part of the programme which I submit.

No. 442.

ORDER THEREON, 25th May 1875, No. 1,433.

CIVIL WORKS, No. 26.

In his Order No. 2,925, of 4th December 1873, His Excellency the Governor in Council remitted to Mr. Parkes to

state his views as to the agency by which he would recommend that the Madras Harbour Works as planned by himself should be carried out.

2. Mr. Parkes on the same date drew up a memorandum in which he stated his opinion, that if a thoroughly responsible Contractor could be found to undertake the works for a reasonable sum they would be most conveniently and expeditiously completed by that means. Failing which, he sketched out the programme of a sufficient staff to carry out the works under his own direction at an annual cost of about £4,000.

3. After his return to England Mr. Parkes reported, in a letter of the 13th March, the result of his application to ten contracting firms to be that none of them would undertake the work at such a rate as he could recommend the Government to accept.

4. The question of the agency to be employed necessarily remained in abeyance until receipt of information that Mr. Parkes' project had been sanctioned by the Secretary of State, when that gentleman, in his letter of 31st March 1875, again laid down in more complete form the terms and conditions on which he proposed to undertake the work.

5. Copy of the sanctioning despatch from the Secretary of State having been received with endorsement of the Government of India, No. 129—31 M, of 27th April, the Honorable the Governor in Council proceeds to take action on Mr. Parkes' proposals. He accepts Mr. Parkes' services as Engineer-in-Chief from the date of his return to England and commencement of preliminary arrangements with reference to the work. Mr. Parkes will have the general direction and control, and will arrange the supply of all stores and plant from England, on a salary of £500 a-year for all such services in England except actual travelling expenses. He will receive also a bonus of £500 for the extra duties consequent on starting the work, designing plant, &c., payable when the concrete block work is fairly started. His engagement will terminate on the expiration of the quarter following that in which the second pier head shall have been completed all but the lighthouse. For visits to Madras he will be paid extra at the rate of £160 a-month, with all travelling and personal expenses; the necessity for making such visits being a matter to be left to his own discretion, subject to the approval of the Secretary of State.

*Proceedings of the Madras Government, Public Works Department,
25th May 1875.*

6. Mr. Parkes will select and send out a Superintendent of Works, who will be responsible to him as Engineer-in-Chief in all engineering matters, in all others to the ordinary Government authorities, towards whom his position will be that of an Executive Engineer in charge of a special range forming a district also. He will correspond therefore direct with the Chief Engineer and Secretary to Government in the Public Works Department; will obtain credits from, and furnish accounts to, the Controller of Public Works Accounts; and be allowed the usual office establishment of a 1st class range, costing Rupees 171 a-month. His own salary will be at the rate of £1,500 a-year, including all allowances; except when called on to travel more than 5 miles from Madras, when he will draw mileage or travelling allowance as an Executive Engineer without reference to the use of tents.

7. The Superintendent of Works shall have entire control over the subordinate officers, of whom the 1st European Assistant on Rupees 500 a-month, or £600 a-year, (according as portions of his salary are paid in India or at Home,) will be selected and sent out by Mr. Parkes. He will be allowed a special establishment costing Rupees 91 a-month. Of the two Native or East Indian Assistants one shall be applied for to the Government of Bombay in the person of Bharmaya Saenu, now a Sub-Engineer, 3rd grade, on the Public Works Department at Kurrachee, with an offer of Rupees 300 a-month, being the pay of the grade above that now held by him. The other has already been engaged on probation at a salary of Rupees 200 monthly from 1st April, to make preliminary surveys and measurements at the laterite quarries. The establishments allowed them shall be maintained at the rate of Rupees 30 and Rupees 27 a-month. The contingent allowance for the offices of the Superintendent of Works should not exceed Rupees 50 a-month.

8. Any officer or subordinate on the works, by whomsoever engaged, shall be liable to have his engagement terminated by Government on three months' notice or payment of three months' salary, with free passage home in either case; and he may be suspended from employment, with loss of half salary while so suspended, at any time, by order of Government, in case of gross misconduct.

(Here enter No. 1,434, dated 25th May 1875.)

(True Extract.)

(Signed) J. O. HASTED, Major, R.E.,

Offg. Joint Secretary to Government.

To the Public Department.

" Marine "
" Revenue "
" Controller of Public Works Accounts

Ed. S. T. Austin.

Spare Copies

MADRAS HARBOUR.

Estimate of Works.

Number or Quantity.		Rate.	One year.	Five years.	Total.
	<i>Preliminary Works.</i>		Rs.	Rs.	Rs.
	Detailed survey	...	...	5,000	
	Forming railways, including materials, rails, chairs, sleepers, &c.	...	...	1,50,000	
	Open quarries	...	...	10,000	
	Preparing block ground	...	...	60,000	
	Rubble stone jetties	...	...	45,000	2,75,000
	Land	...	...	30,000	30,000
	<i>CONSTRUCTION OF PIERS.</i>				
	<i>North Pier.</i>				
479,909	Tons of rubble stone deposits in approach and in foundation	at Rs. 1.5 per ...	...	7,19,860	
11,786	Cubic yards of Portland cement blocks built from 2½ to 4 fathoms water	at „ 12.8 „	...	1,51,250	
98,311	Cubic yards of Portland cement blocks built from 4 fathoms outwards	at „ 12.8 „	...	11,55,750	
1	Lighthouse	...	...	30,000	20,56,860
	Add for rubble work (if found necessary)	...	...	1,00,000	1,00,000
	<i>South Pier.</i>				
479,909	Tons of rubble stone deposits in approach and in foundation	at Rs. 1.5 per ...	...	7,19,860	
11,786	Cubic yards of Portland cement blocks built from 2½ to 4 fathoms water	at „ 12.8 „	...	1,51,250	
98,311	Cubic yards of Portland cement blocks built from 4 fathoms outwards	at „ 12.8 „	...	11,55,750	
1	Lighthouse	...	...	30,000	20,56,860
	Add for rubble work (if found necessary)	...	...	1,00,000	1,00,000
	Buildings	...	...	75,000	75,000
	<i>Plant.</i>				
	Locomotive engines	...	...	60,000	
	Rolling stock	...	...	35,000	
	Floating plant	...	...	1,45,000	
	Engines, cranes, concrete machines, stone breakers, &c.	...	...	1,25,000	
	Quarry and general tools	...	...	50,000	
	Buoys and beacons	...	...	8,000	
	Office furniture	...	...	2,000	4,20,000
	<i>ESTABLISHMENT.</i>				
	<i>Direction.</i>				
	Engineer-in-Chief (G.O.)	...	5,000	25,000	
	Boards (G.O.)	...	...	5,000	
	<i>Engineering.</i>				
	Superintendent of Works	...	15,000	75,000	
	Office establishment	...	2,052	10,260	
	European Assistant	...	6,000	30,000	
	Office establishment	...	1,092	5,460	
	Native Sub-Engineer (G.O.)	...	3,000	15,000	
	Office establishment (G.O.)	...	468	2,340	
	Native Superintendent of Quarries (G.O.)	...	2,400	12,000	
	Office establishment (G.O.)	...	324	1,620	

Estimate of Works.—(Concluded.)

Number of Quantity.	Rate.	One year.	Five years.	Total.
<i>Store.</i>		RS.	RS.	RS.
Native Store-keeper	...	4,200	21,000	
Office establishment	...	324	1,620	
<i>Medical.</i>				
Native Apothecary	...	1,800	9,000	
Medicines	...	500	2,500	
Office contingencies, telegrams to and from Eng- land, postages, carriage of parcels, &c.	...	1,378	6,890	2,18,800
Travelling allowances of staff	...	4,000	20,000	
				26,890
Maintenance during construction	...	...	...	2,45,600
				2,45,290
Contingencies at 5 per cent.	...	...	...	Total ... 56,05,100
				2,45,000
			Grand Total ...	58,50,790

The extra charge of Rupees 3,00,000 on account of rubber work may, if preferred by Mr. Packer, be struck out from the above and shown as a separate supplemental estimate.

(Signed) G. W. WALKER, Major-General, R. E.,
Chief Engineer, Public Works Department.

Abstract of Estimate, Madras Harbour

	85.
Plant	4,29,000
Buildings	75,000
Preliminaries	2,75,000
Total	7,79,000
Land	80,000
Bubble stone work	16,39,720
Concrete block work in 2½ to 4 fathoms	3,02,500
Do. do. from 4 fathoms outward	23,11,500
Two lighthouses	60,000
Establishments, &c., 5 per cent.	2,46,690
Maintenance and contingencies	4,91,880
Grand Total	58,60,790

*Proceedings of the Madras Government, Public Works Department,
26th January 1876.*

No. 447. Read the following despatch from the Most Honorable the Secretary of State for India:—

Public Works.

No. 21.

INDIA OFFICE, LONDON,
30th November 1975.

ON receipt of the letter from your Government, No. 39, of 18th September last, the revised estimate for Madras Harbour, therewith enclosed, was sent to Mr. Parkes for any observations he might have to offer. A copy of his reply* is transmitted herewith.

* Dated 15th November 1875.

2. I observe that orders have been given that Mr. May's revised estimate shall be received by the Controller of Public Works Accounts as his guide in dealing with the expenditure. Your Excellency will now have to consider to what extent any modification of the figures should be made in consequence of Mr. Parkes' observations.

3. I take this opportunity of remarking that it is presumed that your Government will communicate with the Government of India as to the precise financial rules under which the funds required for these works are to be supplied and accounted for; and that in doing so, you will bear in mind the conditions imposed under paragraph 9 of my despatch to the Government of India, No. 20, of the 11th March last.

I have, &c.,

SALISBURY.

To His Excellency the Right Honorable
the Governor in Council, Fort St. George.

From W. PARKES, Esq., Civil Engineer, to the Under Secretary of State for India, dated
23, Abingdon Street, 15th November 1875.

Madras Harbour.

Your letter to me of the 9th instant requests me to furnish any observations I may desire on an estimate which Mr. May has submitted to the Government of Madras for the works of the above harbour.

2. In compliance with this request I beg to state that, on the 18th September, I received from Mr. May a copy of the estimate, together with the information that he had submitted it to the Government.

3. On the 24th September I wrote to Mr. May requesting him to ask permission to withdraw the estimate, on the ground that I considered its submission to the Government likely to convey a false impression of the probable cost of the work.

4. I now beg to repeat this opinion, and to request that the Secretary of State be pleased to recommend the Government of Madras to withhold their sanction from the estimate.

5. It is only fair to Mr. May that I should at once explain that this request is not to be interpreted as casting any censure upon him. I believe that the submission of the estimate was the result of a series of difficulties and misunderstandings which are now removed, and in the course of which the part taken by Mr. May appears, so far as I can judge, to have been both judicious and conciliatory.

6. Probably the estimate has already been withdrawn; but, as it has come before the Government of Madras and the Secretary of State, it is right that I should explain the grounds of the course I have taken, and the more so as I think an important question of principle is involved.

*Proceedings of the Madras Government, Public Works Department,
26th January 1876.*

7. Mr. May states in the 2nd paragraph of his covering letter that "the estimate is based generally on Mr. Parkes' original estimate," and if the details are examined the truth of this statement will be seen, though the treatment which it has received in the re-arrangement has brought out a serious apparent discrepancy.

8. Mr. May explained to me, though he has omitted to do so in his letter to the Government, that in reducing the amounts given in my estimate from pounds sterling into rupees, he has taken the value of the latter at 1s. 10d. Now as my estimate for all local expenses, amounting to nearly four-fifths of the whole, was based on rates expressed in rupees, and the results were converted into pounds sterling at the par rate of 2s. per rupee, it is clear that for the re-conversion into rupees the same rate should have been taken. With regard to the portion of expenditure to be incurred in England, that for plant and cement, the point is perhaps debatable, but even for this I think the more ordinary is to assume the par rate, when, as in the present case, the expenditure will be spread over several years.

9. If Mr. May's estimate of Rupees 64,00,000 be converted into pounds sterling at his assumed rate of 1s. 10d. to the rupee, the amount becomes £586,667 as against my estimate of £565,078. If this difference of £21,589 were the only question involved, it would not, I think, be considered serious, but what is of far more importance is the form of Mr. May's estimate to which the sanction of Government is asked.

10. In the accompanying Government Order are given comparative abstracts of Mr. May's estimate and my own, with the items re-arranged so as to come under the same headings. The following is a transcript of those abstracts, merely substituting pounds sterling for rupees at the rate 1s. 10d. in the case of Mr. May's:—

	Mr. Parkes. £.	Mr. May. £.
Plant		47,850
Buildings	80,000	9,165
Preliminaries		33,458
		90,472
Land		4,125
Rubble stone-work	143,972	*144,283
Concrete block-work in 2½ to 4 fathoms	20,250	20,250
Do. do. from 4 fathoms outwards	231,150	*231,500
Two lighthouses	6,000	*6,000
Establishments, &c.	24,563	32,157
Maintenance and contingencies	49,137	47,477
Totals	565,078	586,665

11. From this it will be seen that the greatest difference between the two is to be found in the item of plant, buildings, preliminaries, and land, which I combine in a single item of £80,000. Mr. May substitutes for this fourteen items, which the Government have collected into the above four, amounting to an aggregate of £94,600 or £14,600 above my estimate. His estimate for establishments is also given in detail, and shows an excess of £7,588 above mine.

12. The last discrepancy admits of a very simple explanation. Three items, the wages of the mechanical assistant, the concrete-maker, and the foreman diver, amounting in all to Rupees 72,000 or £6,600, were included by me in the rates for work which Mr. May adopted from my estimate. This amount therefore enters twice into Mr. May's estimate and should be deducted from his total. This makes our respective estimates for establishment very nearly

The slight differences in these items appear to be due to the rejection of fractions in the conversion of the rates from English to Indian units.

*Proceedings of the Madras Government, Public Works Department,
26th January 1876.*

coincident, though mine is taken as merely 5 per cent. on the estimate for works, and Mr. May's is estimated in detail.

13. The sum of £80,000 which I allowed for plant, buildings, and preliminaries (including land) was arrived at after careful consideration. I found that it would be impossible to arrive at any reliable conclusion by estimating in detail the various engines, cranes, machinery, railways, buildings and other requirements for such a work without an amount of local survey and special design, which would involve a delay and expenditure for which there seemed no justification.

A better mode of obtaining a safe result seemed to be afforded by taking the actual expenditure on these items on the very similar work at Kurrachee, and applying that result to Madras after making allowance for certain broad features of difference. The estimate is confessedly only approximate, but, as a total, it is sufficiently reliable for all purposes as yet required, and, so far as can at present be anticipated, it seems likely to be substantially borne out by the actual expenditure.

14. This mode of making the estimate, however, was not open to Mr. May, as he has not the same knowledge of the circumstances of the two places, and, even if he had, it would not have answered his purpose, which was (under the direction of the officers of the Public Works Department) to submit a detailed estimate.

15. He therefore did the best he could by adopting the more direct process, which I had discarded as less reliable than the indirect one.

His data in 1875 are probably somewhat more reliable than mine would have been in 1873, but they are far from perfect, and his fourteen heads, though they may form a fairly reliable aggregate, are individually merely based on data of a more general character than mine. Had he merely submitted his opinion that a sum of £95,000 would be required where I had only calculated on £80,000 for the preliminary expenditure, I would have given the grounds of his opinion my best consideration, and have submitted a revised estimate if I saw sufficient reason for doing so. But this is not the question. Mr. May has submitted not only an aggregate of £95,000, but the fourteen separate items which go to make up that aggregate, some of which may be confidently anticipated to be in excess, and others in deficiency of the actual requirements.

16. The Government is now asked sanction for these items individually. I do not know what may be the object for which such sanction is asked, but I am quite sure of what the result would be, and would not be, if it were given. Where the estimate is excessive, the effect of the sanction would be to relax the vigilance of the Engineer who has the control of the expenditure, and the excess would not improbably be converted into a deficiency. Where the estimate is insufficient, no amount of sanction can make it suffice, and a further sanction would be required for a supplementary estimate.

17. I therefore unhesitatingly advise that Mr. May's estimate be cancelled, and that my own estimate as given in the abstract in the Government order be adopted, the amounts being converted if required into rupees at 2s. each until materials exist for submitting a revised one.

18. My objection applies equally to the details for "establishment." I submit that it is most undesirable to place on record in an official paper which, if not actually published, is readily accessible to the public, the salaries which Government are prepared to give for the performance of duties, the nature of which is not yet finally determined.

19. I hope it will not be concluded that I am asking for any relaxation of the real control of the proper authorities of the Government over the expenditure on those works. My object is rather the contrary, and to prevent a premature license being given to the executive officers by the substitution of a Government sanction for their own personal responsibility. Both Mr. May at Madras and myself here have the fullest sense of our obligation to submit the best estimates in our power before asking sanction for expenditure, but I object on his behalf as well as on my own to this obligation being converted into a mere formality by the submission of details which cannot be individually based on reliable data.

*Proceedings of the Madras Government, Public Works Department,
26th January 1876.*

20. That I am warranted in saying that the data for the details of Mr. May's estimate of 2,41,000 are true and reliable will be apparent when I explain that about two-thirds of that amount is for expenditure to be incurred in this country under my direction, and therefore entirely beyond his knowledge or control.

With regard to the materials for the details of expenditure are being gradually collected and submitted to you in the regular way from time to time.

P.S.—Since writing the above I have heard from Mr. May in reply to my letter of 24th September alluded to in paragraph 8. He informs me that, in consequence of the reference of the matter to me for report, he had deferred acting on my request to ask permission to withdraw his estimate, but other facts which he mentions and the general tenor of his remarks on the subject tend to strengthen the recommendation I have ventured to submit herewith.

No. 448 & 449.

ORDER THEREON, 26th January 1876, No. 206.

CIVIL WORKS, No. 28.

Ordered that the Home Government be addressed on the subject of the revised estimate for the Madras Harbour.

2. Pending disposal in the Legislative Department of the bills referred to in G.O., No. 2,060, dated 20th July 1875, action on paragraph 3 of the despatch from the Secretary of State recorded above will be deferred.

(Here enter No. 207, dated 26th January 1876.)

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,

Secretary to Government.

No. 450.

(DOCKET No. 207, dated 26th January 1876.)

Copy of the above forwarded to the Government of India with references to their letter, No. 6 M, dated 14th January 1876.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,

Secretary to Government.

Statement showing the proposed changes in the Office Establishment of the Madras Harbour Works to accompany Lett. No 53 W. dated 25th July 1876

Contract to
have the
2nd
Depart
ment
increased
at Madras
at 1000

Station & Charges

Ordinary

Extra

Present Establishment	Proposed Establishment	Permanent Increase per month	Decrease per month	Temporary Increase per month	Decrease per month	Extra ordinary proportion	Grounds of proportion
minimum maximum minimum maximum	minimum maximum minimum maximum	minimum maximum minimum maximum	minimum maximum minimum maximum	minimum maximum minimum maximum	minimum maximum minimum maximum		
8 of 8 of 8 of 8 of 8 of 8 of 8 of 8 of	8 of 8 of 8 of 8 of 8 of 8 of 8 of 8 of	8 of 8 of 8 of 8 of 8 of 8 of 8 of 8 of	8 of 8 of 8 of 8 of 8 of 8 of 8 of 8 of	8 of 8 of 8 of 8 of 8 of 8 of 8 of 8 of	8 of 8 of 8 of 8 of 8 of 8 of 8 of 8 of		

Detail

Office Establishment of Superintendent

1 Accountant	60	60	60	60	
1 Assistant do do	30	30	30	30	
1 Assistant do do	20	20	20	20	
1 Draughtsman	40	40	40	40	
3 Boys at 7 Rs each	21	21	21	21	
1 Manager or Head Clerk	120	120	120	120	
	171	171	171	171	200

Office Establish- ment of Assistant Engineer

1 Accountant & Writer	30	30	30	30	
1 Draughtsman	40	40	40	40	
3 Boys at 7 Rs each	21	21	21	21	
	91	91	91	91	

~~Medical~~
~~Assistant Apothecary~~ 150 150 150 150

~~Medical~~
~~Assistant Apothecary~~ 150 150 150 150

The services of a chief Clerk possessing intel-
ligence and experience in
routine office work being
absolutely necessary to con-
duct the general
duties of the Office
efficiently as the
work is now
extremely heavy

W. B. Beardmore
Offy Superintendent
Madras Harbour Works

Madras
25th July 1876

25th July 1876
Madras Harbour Works
10th August 1876

No. 53 W.

Mr. A. B. Bevan Esq.
Offy Superintendent
Madras Harbour Works

Major General G. W. Walker K. C.
Secretary to Government
Public Works Department
Fort St. George

Madras, 26th July 1896.

Sir,

I have the honour to report for the information and orders of Government, that the Office Establishment of the Superintendent, together with that of the Assistant Engineer, sanctioned in G. O. No. 11,533, dated 28th May 1895, amounting to Rs 262 a month, have been found from experience to be very inadequate to carry on the work of the Office efficiently. 2nd As a work of such magnitude and importance as the construction of these Harbours, the amount of correspondence and number of accounts in connection with it, are considerable, and the work has already begun to shew itself.

I have the honor to be
 Your most obedient servant
 Nathl. B. Beardslee
 Offg. Superintendent
 Charles Barlow & Co.

The first part of the manuscript is a list of names of persons who have been appointed to the various offices of the State, including the Governor, the Judges of the Supreme Court, the Justices of the Peace, the Clergy, the Members of the Legislature, and the Members of the various State and Federal Courts. The list is arranged in alphabetical order, and each name is followed by the office to which he or she has been appointed. The second part of the manuscript is a list of names of persons who have been appointed to the various offices of the State, including the Governor, the Judges of the Supreme Court, the Justices of the Peace, the Clergy, the Members of the Legislature, and the Members of the various State and Federal Courts. The list is arranged in alphabetical order, and each name is followed by the office to which he or she has been appointed.

P.O. 200/Jan'y 196 No 207
 25 May 1952 1433
 Harbour Estimate. Mps -

P.W.D.
 12/10/76
 The Offg Superintendent
 Madras Harbour Works
 To The Secretary Government
 Public Works Department
 Port of George

Dated 28th July 1876
 Recd

No 53 W.

Submits proposition
 for an increase to the Office
 Establishment by appoint-
 ing a Managing Clerk.

No 218

Recd - 14.8.76 Mtda 16.8.76
 Ctg - 20.8.76 Mtda 18.8.76
 of. Shet 27 July

PUBLIC WORKS DEPARTMENT.

Letter from the Offg Superintendent,
 Madras Harbour Works, No 53 W. Dated
 28th July 1876.

FOR ORDERS.

Major Genl W.
 Secretary to Govt. P.W.D.

It is suggested that the
 Harbour Supt. be instructed to
 apply for Mr. Parker's approval
 first as the existing Office Esta-
 blishment were framed with
 reference to Mr. Parker's Estimate
 which that Gentleman would
 not like to see exceeded.

This is in itself a reasonable
 proposition, but as we are in
 a difficult position to make alterations
 now we may in London - no
 engagements to be made
 to be maintained which may
 be considered as a proposal.

It may be necessary to
 I cannot see it at present.
 The proposal is to add a cost
 of from 120 to 200 Rs. and
 establishment of only 171. i.e.
 to double it - I think the
 Ex^{ce} of amount is some

Opinion of experience from
 Some other office should report
 whether the work on an average
 of last 6 months is beyond the
 power of the existing establishment
 Bt. 7/3 P.W.D.

FOR ORDERS.

No 2138

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 16 Aug 1916.

Read the following:—

From
The Offg. Superintendent
Madras Harbour Works } (A.C. No 53 Bd/28th July/16)

His Grace the
Governor in Council
is not prepared to author-
-ize the large addition
proposed to the Office
of the Superintendent of
the Harbour Works with-
-out further and inde-
-pendent testimony as
to the necessity for the
increased cost. The
Examiner of Public
Works Accounts and
the Deputy Chief Engineer
will accordingly, after
investigation, report
whether the work,
taking

Taking the average of
the last six months
is beyond the power
of the sanctioned
Publichurst, and, up
to, to what extent and
at what cost it should
be supplemented.

595-3 M

Govt. of Madras
PUBLIC WORKS.

The Engineer of P. Works

W. S. V.
18-8-77

to the 11th September 1877

No. 367-368

~~Office~~ Office Colaboli
ment of the Superintendent
of the Madras Harbour
Works - The Engineer of
P. Works & the Dy Chief
Eng. requested to report
on the application for an
increase to the _____