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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Cons. S. S. 9

G.O. No.

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Dated

2.5

1859

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
from 1st April to 3rd May 1859.

Read the following letters.

No. 28. From Colonel J. D. BOURDILLON, Esq.,
Secretary to Government, dated 21st March 1859. No. 8838.

With reference to Extract Minutes of Consultation dated the 3rd January 1859, No. 10, declining to pass order on the subject of the Official Chief Engineer's letter No. 5786 of the 25th November 1858, details are furnished of the plan contemplated and of the cost involved in the proposal for the Establishment of a Presidency Store and Workshop of the Public Works Department; and requiring information on certain other points, I have the honor, in now submitting Plans and Estimates for the requisite Buildings, to make the following remarks for the consideration of Government, with the hope that they, in connection with the correspondence I shall marginally refer to but not quote, will be deemed so conclusive of the advantages, if not the absolute necessity of the measures I propose, as to obtain for them the approval and support of Government.

2. The system under which the Machinery, Stores, and all articles of Plant required for the use of the Department Public Works are received on arrival from England, taken charge of, and finally issued by another totally distinct Department has ever been found uncertain, unsatisfactory, and vexatious in its operation, especially since the extension of the scale on which Public Works are carried on has required the introduction upon them of greatly increased quantities of Tools and Apparatus of all kinds, and of expensive delicate Machinery, requiring altogether large stowage space protected from the weather, and unremitting attention, with considerable expenditure of labor, in preserving and keeping them from rapid deterioration by the well known corroding action of this climate.

3. The question of a change, although felt to be highly desirable, was originated, however, not by this Department which suffered from the existing system, but by the Government of India, which, in granting sanction for the employment of extra Lascars in the Arsenal for the charge of the Public Works Department Stores on the application of this Government, at the instance of the Inspector of Ordnance and Magazines, requested to know whether those Stores could not be received and taken care of by the Department Public Works of this Presidency, as had then recently been ordered in Bengal.

4. Not having the means of replying immediately, or explicitly to that requisition, I deferred doing so, and on its being repeated in the Financial Resolution of the Government of India of the 26th February 1858, No. 1086, communicated with Extract Minutes of Consultation of the 1st April 1858 No. 594, I requested the Government in my letter No. 675 of the 26th May 1858, to obtain for my guidance some information as to the means proposed by the Chief Engineer of Bengal for receiving, storing and issuing Machinery, Scientific Instruments, and other Stores sent out for his Department, and being in the mean time under the impression that the orders of the Government of India implied that this Department was at once to conform to the Bengal practice, I recommended that a piece of ground near the Seven-wells should be allotted as a yard, and that the sum of Rupees 1,000 might be granted for the purpose of putting up a temporary shed.

5. A reference, accordingly, appears to have been made to the Government of India, which in reply under date the 16th July 1858 No. 3305, intimated that, as the practice obtaining in that Presidency had been found unsatisfactory, the subject had been referred to a Committee of Officers; and no further communication that I am aware of, has been received of the decision arrived at, or of the measures suggested for the improvement of the Bengal system, previously recommended for adoption in this Presidency.

6. Under these circumstances, the subject would appear to be still unready for final adjustment, but believing that the system which, besides involving many delays, exposes our Machinery to such neglect in landing, or during its storage under the Ordnance authorities, as

experience has proved, leads to its too frequently becoming seriously damaged before it can be transferred to professional charge, and which places me in an anomalous position with regard to the head of another Department: should be modified without delay I avail myself of the opportunity the Government has now afforded me of laying before it in a definite shape, the details of such Buildings and Establishments as will, I think, enable me to undertake at once the reception, careful custody, and issue of all Stores belonging to the Public Works Department, and moreover to entertain and maintain in addition, the nucleus of a small Establishment of skilled Artizans for effecting the minor repairs which are, and often will be necessary, and for preventing by constant watchfulness and cleaning, the great deterioration which it has been found in the instance of a Steam Engine transferred to the Mint and in others subsequently examined by Mr. Flockhart, takes place when Machinery is not carefully looked after in this Country.

7. The Home Government has so repeatedly and positively refused to allow any Stores or Machinery to be obtained from England for public purposes, except through its own intervention, that I can do no more than urge the advantages that would accrue, and the many losses and disappointments that would be averted were it in my power to communicate directly with the Manufacturers, on my own responsibility, as in that case, instead of being obliged as hitherto, to include in my Annual Indents vague requisitions for things which may or may not be wanted before the expiration of the indefinite period within which these Indents are usually complied with, if they are so at all, and being kept in most cases totally ignorant of the extent to which articles will be supplied till after their arrival, I should be able to send, from time to time, as a prospect of their being required appeared, for such things only as would be actually needed within a reasonable time, and being thus in a position to specify, exactly what was wanted and to hold the manufacturers answerable for its quality, no useless nor unfit Apparatus would be received, and all disappointment be prevented.

8. Leaving therefore, of necessity, the supply of all Stores and Machinery in the hands of the Home Government, I would strongly urge as the most requisite preliminary for placing every thing connected with the "Plant" of the P. W. D., under its own management from first to last, that my Indents, whether annual or occasional, shall be separately submitted, and that every thing sent out under them shall be consigned to the Chief Engineer, and taken charge of by him on arrival, the packing accounts and Bills of Lading being forwarded to him through the Government, with all such other vouchers as will be required to enable him to price the articles and debit himself with their full value in the Books of his Office, rendering accounts periodically or otherwise of such issues as may be made to Districts on local Indents, thereby obviating the necessity of going up to Government on each individual requisition from the Provinces, or requiring payment in cash or transfer receipt, but debiting as required in Extract Minutes of Consultation, No. 1696, dated 23rd August 1858, the Stock value, whenever possible, to the Estimate of the work for the use of which the respective articles may have been needed.

9. As regards the Buildings which will be necessary and the situation on which I would propose to erect them, I beg to say, that I think the Plan and Estimate herewith submitted, will provide all that is at present required at a cost of about Rupees 61,000 on the site previously reported as being available near the Seven-wells, which is well placed with reference to communication, both with the Railway and the Shipping in the Roads, and is otherwise accessible from any quarter.

10. For the duties of landing, receiving, safe keeping, repairing, issuing, &c., I would propose the following Establishment.

Letter from Chief Engineer 17th September 1858, No. 3783.
Letter from do. to Government No. 5910 of 30th November 1858, and correspondence therein referred to.

Vide letter No. 811 of 3rd June 1858.
Submitting Proceedings of Committee and Extract Minutes of Consultation No. 1369 of the 15th July 1858.

Chief Engineer to Government No. 8523 of 26th March 1858.

Extract Minutes of Consultation No. 441 of 17th February 1859, letter from Chief Engineer No. 8145, 25th February 1859.
Do. Do. No. 8505 of 11th March 1859.

General Department.

	Rs.
One Superintendent...	200
„ Store keeper...	80
„ Assistant do...	50
„ Book keeper...	40
„ Correspondence Clerk...	25
„ Moochee ..	10
„ Peon...	7
2 Sweepers...	7
Total Rupees...	419

Cleaning and Repair Department.

	Rs.	A.	P.
One Mechanical Engineer.....	250	0	0
3 Working Carpenter Maistries...	52	8	0
3 do Smith do ...	52	8	0
3 Hammer men...	21	0	0
3 Bellows boys...	10	8	0
1 Syrang...	14	0	0
2 Tyndals...	20	0	0
40 Lascars at Rupees 6 each..	240	0	0
	660	8	0
Grand Total Rupees...	1,079	8	0

11. But of this, the following agency is already available, consisting of the Sub-Engineer and his Establishment, attached to the Central Office, the extra Lascars at present employed in the Arsenal in charge of the Stores of the D. P. W., and one of the Mechanical Engineers who recently arrived from England, and has been engaged in superintending the cleaning, sorting, and re-packing of Machinery.

	Rs.	
One Sub-Engineer...	200	} Alloted to Central Office.
„ Correspondence Clerk...	25	
„ Assistant do ...	10	
One Assistant Overseer...	80	} Employed with Mechanical Engineer.
„ do do ...	50	
1 Mechanical Engineer ...	250	} Attached to Sub-Engineer Curley.
1 Tindal ...	10	
3 Lascars ...	18	
19 do ...	114	} Arsenal.
Total Rupees	577	

12. Deducting the above there will remain the following Establishment, to be specially provided.

General Department.

Rupees.

One Book keeper ...	40
„ Peon ...	7
2 Sweepers ...	7
Rupees...	<u>54</u>

Cleaning and Repair Department.

Rs. As. P.

3 Carpenter Maistries	52	8	0
3 Smith do ...	52	8	0
3 Hammer men ...	21	0	0
3 Bellows Boys ...	10	8	0
1 Syrang ...	14	0	0
1 Tindal ...	10	0	0
18 Lascars ...	108	0	0
Rupees ...	<u>268</u>	<u>8</u>	<u>0</u>
Grand Total ...	<u>322</u>	<u>8</u>	<u>0</u>

which will form a moderate addition to the present charge to give effect to arrangements by which so much advantage will be derived, not only in facilitating the reception, custody, and issue of Stores, but likewise in repairing and preserving them, and Machinery of all kinds, which together are estimated to be worth five and a half lacks of Rupees.

13. Pending the consideration of the Plan and Estimate, and of the measures I have proposed, and I trust of the erection of the suitable Buildings, I beg that Government will be pleased to sanction the rental, or construction of temporary shelter for the preservation of the Machinery still exposed on the North Beach, and the formation of a temporary Establishment for six months under my own orders, for taking care of them so far as the means shown in para. 11 to exist will admit.

14. Finally, with reference to the latter part of the orders under reply, requiring me to state whether there is any record or other information to show the mode in which I contemplated employing the Mechanical Engineers, whom in reply to Extract Minutes of Consultation of the 8th January 1858 No. 29, I recommended should be sent out, as proposed by the late Court of Directors, with the Steam Dredges and Steam Tugs they were despatching for service at the various Ports and Canals of this Presidency, I beg to say there is no record on the subject, but the document to which you have alluded, and that the only information in my power to give is, that the Engineers, in question, have always been intended for employment in putting together, in the first place, the Steam Dredges and Tugs, and in the second place, in working them, and keeping their Machinery in order, it being remembered that the extent to which these men should be engaged, was not fixed by me, but was determined by the experienced authorities at Home, solely with reference to the number and character of the Vessels and Machinery sent out.

15. Up to this date, twelve persons have arrived. Of these I propose to keep one, Mr. Flockhart under my own orders at the Presidency, to superintend the landing, sorting, cleaning, and despatch of Machinery and Stores; six will be posted to the Kistnah and Godavery Divisions, where there are already, or will shortly be, of Dredges and Tug Boats despatched since the date of the Court's intimation of their intention of sending out Mechanics, no fewer than ten, not reckoning the two Dredges already at work, on the Rajahmundry Canals, or the Steamers in the Gadavery, nor taking into account the large Iron Tug Boat of 80 Horse Power which, under

a Contract with the late Court, is being sent out for the Kistnah, in lieu of the one which arrived last year in the "Bengal," and was transferred to Calcutta by order of the Governor General.

16. These numerous and valuable Steam Vessels, and much fine Machinery besides, which is in use in the three Delta Districts, will require all the superintendence that can be spared for them, and if after assigning two more of the Engineers to Tanjore for the two Dredges and the Tug Boats to be employed at Nagore, and on the Negapatam Harbour works, and four others to the four Dredges and 3 Tugs on the Coast Canal, any others are available, they will be most usefully and advantageously engaged at Bezoarah or Dowlaishweram, in working and maintaining in order, the Machinery for which superintendence cannot be at once specially apportioned from the limited number of qualified persons yet arrived.

17. I solicit the early favorable consideration of the Right Honorable the Governor to the proposals now submitted, and respectfully request the attention of Government to the highly discreditable condition of the once valuable property now deposited in a delapidated state in the interior of Abercrombie's Battery on the Beach, where last year might have been seen exposed to all the effects of alternate showers and sunshine, many open cases of the most delicate and highly finished portions of Steam Machinery, and where still may be observed several Brickmaking Machines, which have been broken, it is believed, in being landed, and remain useless for want of the repair, which a small Establishment such as I have proposed would effect.

No. 29. From Colonel C. E. FABER, Chief Engineer; to J. D. BOURDILLON, Esq.,
Secretary to Government, dated 30th March 1859, No. 9142.

I have the honor to report for the information of Government, with reference to Extract Minutes Consultation No. 460, of the 26th February last, that the additional expense required for completing the sheds at Abercrombie's Battery, amounts to Rupees (804) eight hundred and four.

2. The increase has been caused by the supply of the T iron (furnished by the Principal Commissary of Ordnance *without payment*) having been exhausted, so that a timber frame work has to be supplied in place of the iron bars. A large width is also requisite for the Boat shed than was originally contemplated, and therefore a strong truss roof will have to be constructed at much additional expense.

No. 30. From Colonel C. E. FABER, Chief Engineer; to J. D. BOURDILLON, Esq.,
Secretary to Government, dated 6th April 1859, No. 9367.

In continuation and in further illustration of my Report No. 8838, dated 21st Ultimo, I do myself the honor to forward herewith copy of Proceedings of a Professional Committee, held at the particular application of the Inspector General of Ordnance and Magazines.

*Proceedings of a Committee assembled by order of the Chief Engineer, in Extract Proceedings
No. 9242, dated 1st April 1859.*

PRESIDENT.

Captain Orr, Superintending Engineer.

MEMBERS.

Captain Hitchins, Civil Architect,

Captain Rawlins, Garrison Engineer.

The Committee having assembled pursuant to orders, proceeds to examine the articles pointed out to it as those to which the Inspector General of Ordnance and Magazines alludes in his letter No. 1081 of the 26th Ultimo, as "Punts," but which the Committee finds are the several parts of three Steam Dredges intended for the Eastern Coast Canal, and which, landed from the "Cressy" have been thrown down partly on the Light House Esplanade and partly in Abercrombie's Battery or left on the lands of the beach in so reckless indiscriminating a manner as to render it quite out of the question even if under any circumstances it were possible for the Committee to take any inventory or to come to any conclusion as to the correct receipt or condition of the articles.

In fact as no packing account appears to have been made out with reference to the numbers and marks which ought to have been placed on each separate article, it is quite clear that the Vessels and Machinery cannot be pronounced upon as perfect or otherwise, till their various parts now lying about in confusion are assorted and fitted into their respective places, which a work of time under the most favorable circumstances will occupy many months at Madras, where neither suitable means nor appliances for fitting together elaborate Machinery exist.

The Committee regret to observe that besides the injury sustained by some portions of the Machinery from rust, particularly some crab winches still lying on the slope of the beach, two large iron castings, which it will be difficult to repair at Madras have been broken, and that many of the cases containing the component parts of the Engines and other small articles are in so dilapidated a state as to make it probable that their contents are not in the best condition.

As the damp saline air of the beach is most detrimental to all iron articles within its reach if not protected by paint, the Committee would recommend that the three fine Dredges under inspection should be put together as soon as possible, or that if they cannot be fitted at Madras with despatch, they should be shipped for Masulipatam or Coringa for employment on the Kistnah or Gcdavery Canals, it being understood that they can be speedily fitted either at the Bezorah or Dowlaiswaram Workshops and while well cared for and kept in order by those establishments, they can be immediately made useful on the Delta Canals.

No. 31.

ORDER THEREON, 2nd May 1859, No. 1013.

Para. 1. In his letter of the 21st March 1859 the Chief Engineer represents the necessity of having an Engineering Store and Workshop at the Presidency unconnected with the Ordnance Department, for the custody and care of the valuable Machinery already received and still expected from England; he details the arrangements that would be required for such an establishment, and submits a Plan, and an Estimate amounting to Rupees 61,000 for the construction

of the requisite Buildings on a piece of ground which has been selected within the limits of Black Town and near the Seven Wells. In his subsequent letter of the 6th April he forwards the report of a Committee held to examine some Machinery landed from the "Cressy."

2. The Government are satisfied from the papers now before them and from previous correspondence on the same subject that the plan of a separate Work-yard and Stores-room for the Public Works Department is quite necessary. The present system of having all the Engineer Plant and Machinery in the Arsenal has proved exceedingly inconvenient; and besides the inconvenience, the Arsenal has been found deficient in accommodation for a large part of the articles that have been sent out by the Home Government; as a consequence valuable Machinery and Stores in great quantity are now lying in Abercrombie's Battery, wholly exposed to the weather, except where temporary Sheds have been put up, besides being subjected to much damage in various ways. On the ground therefore of the positive loss actually suffered under the present practice, the Government resolve to apply to the Government of India for immediate sanction for the Buildings and Establishment asked for by the Chief Engineer both of which they consider to be on a moderate scale.

3. Referring to the site selected for the proposed Store-rooms, the Collector of Madras will be requested to ascertain and report whether the piece of land at the Seven Wells is really available.

4. The Establishment proposed for the duties of landing, receiving, safe keeping, repairing, and issuing, &c. of Stores involve a charge inclusive of 240 Rupees for 40 Lascars, of Rupees 1,079-8 but deducting the Agency available, the net charge for the additional establishment will be only Rupees 322-8. In respect to the term "Lascar" the Government desire it to be distinctly understood that the men employed under that designation will not be entitled to pension like Military Lascars.

5. As soon as it shall be ascertained that the ground selected is available, the Governor in Council will be prepared to authorize the Chief Engineer to organize an establishment out of the existing means, and to erect temporary Sheds for the reception of the Stores and Machinery to be moved from Abercrombie's Battery and the Arsenal. The Chief Engineer will explain more fully the measures to which he has alluded generally in para. 13 of his letter of the 21st March. The Government conclude that it is not now necessary to sanction the Estimate received with Colonel Faber's letter of the 30th March for completing the Sheds in Abercrombie's Battery; at all events they will await explanation on this point.

6. The Government are of opinion that the plan of procuring Engineering Stores from England on a separate Indent as proposed in para. 8 of the Chief Engineer's letter of the 21st March is very desirable; and they agree with that Officer that the separation of the Public Works Stores from those of other branches of the Service should be complete.

7. Reference has been already made in the preliminary instructions furnished by His Excellency the President to Colonel Bell, to the necessity of establishing an efficient system of Account and Audit in the Public Works Department, and the Government expect to receive an early communication from that Officer on the subject, including a simple, effective set of Store Accounts.

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

No. 32. Ordered in consequence that the following letter be despatched.

From J. D. BOURDILLON, Esq., Secretary to the Government of Fort Saint George; to
Lieutenant-Colonel H. YULE, Secretary to the Government of India, P. W. D.
dated 2nd May 1859, No. 1014.

Para. 1. I am directed by the Honorable the Governor in Council to submit for the consideration and early orders of the Government of India a representation from the Chief Engineer regarding the want of accommodation for the valuable Stores and Machinery belonging to the Public Works Department of this Presidency.

2. By an order dated 6th May 1856, No. 1057, this Government, in accordance with a suggestion of the Chief Engineer, directed that the Ordnance Department should receive, take charge of, and issue from time to time as might be required, all Machinery and Stores intended for the use of the Public Works Department. They considered that this plan would be found both convenient and economical, and that it was even necessary on several grounds. The absence of Store yards, in connection with the Office of the Chief Engineer, the want of the necessary landing and receiving Establishment of Lascars and other servants for the debarkation and custody of Machinery, and the fact that the late Court of Directors invariably consigned all Stores indiscriminately to the Ordnance Department without distinguishing those for the Public Works Department, were all considerations which influenced this Government in adopting the Chief Engineer's suggestion.

3. The system then adopted however has proved a failure. It has led to confusion in the Stores and to difficulty in distinguishing between those intended for the Ordnance and those belonging to the Public Works Department; it has moreover led to frequent and repeated complaints of delay and difficulty in obtaining Stores for the use of the latter Department; and no small amount of angry feeling has been produced between the two Departments; as the Government of India may learn by a reference to the Proceedings recorded in the Consultations noted in the margin.

4. Independently of these inconveniences, the accommodation in the Grand Arsenal for such large and heavy Machinery as has been recently sent out by the Home Authorities has been found wholly insufficient, and the Government have been obliged to assent to expenditures for temporary Sheds to shelter a part of what cannot be received in the Arsenal; while notwithstanding these arrangements a large quantity of valuable Machinery is still exposed to the weather, besides being subjected to much damage in various ways.

5. This Government has long had in view a change of system such as to place the custody and issue of Stores belonging to the Public Works Department in the hands of the Chief of that Department; but they have been hitherto deterred from proposing any scheme for that object as they learnt from Major Strachey's letter of the 16th July 1858, No. 3305, that a similar plan had failed in Calcutta and that the subject had been referred to a Committee of Officers; they determined therefore to await the result of the Committee's Report which was promised in that communication before taking any decisive steps in the matter.

P. W. Cons. 10th Aug. 1858, Nos. 16 at 22
Do. 17th do. " " 35 at 36.
Do. 28th Sept. " " 30 at 33.
Do. 12th Oct. " " 107 & 108.
Do. 5th Nov. " " 9 & 10.
Do. 30th do. " " 30 & 31.
Do. 21st Decr. " " 130 & 131.

6. The time has however arrived when it would be unwise longer to remain quiescent.

From Chief Engineer, 21st March 1859, No. 8838.
From do. 6th April " " 9367.

The accompanying letters from the Chief Engineer more fully describe the present state of the case. In his letter of the 21st March 1859

he represents the necessity of having an Engineering Store and Workshop at the Presidency unconnected with the Ordnance Department for the custody and care of the valuable Machinery already received and still expected from England; he details the arrangements that would be required for such an establishment, and submits a Plan and an Estimate amounting to Rupees 61,000 for the construction of the requisite Buildings. In his further letter of the 6th April he forwards the Report of a Committee held at the instance of the Inspector General of Ordnance and Magazines to examine some Machinery landed from the "Cressy."

7. Whatever may have been the causes of the failure in Bengal, of which this Government have as yet received no information, they are quite satisfied from the papers that have come before them that the plan of a separate Work and Store-yard for the Public Works Department at this Presidency is quite necessary; and adverting to the great and positive loss actually suffered under the present practice, they solicit the immediate sanction of the Government of India for the Buildings and Establishment asked for by the Chief Engineer both of which they consider to be on a moderate scale.

8. The Estimate has been already stated to amount to 61,000 Rupees. The Establishment proposed by the Chief for the duties of landing, receiving, safe custody, repair, issue, &c. of Stores, amounts to Rupees 1,079-8 per mensem; but deducting the Agency available, the net additional charge will be no more than Rupees 322-8 per mensem. In regard to the Lascars the Government have directed it to be understood that the men employed under that designation are not to be entitled to pension like Military Lascars. A Tabular Statement in the prescribed form accompanies.

9. The Government of India will observe from the accompanying Extract Minutes Consultation of the 11th April that the attention of Colonel Bell, the newly appointed Chief Engineer, has been called to the necessity of establishing an efficient system of Accounts and Audit in the Public Works Department, and that Officer has been informed, in connection with the present project, that it is the design of this Government that that system shall include a simple and effective scheme of Store Accounts.

From Government of India, 28th January 1858, No. 451.
To do. do. 22nd June " " 1178.
From do. do. 16th July " " 3305.

Public Works Department, Statement of Increase to Establishment in this

No.	Date.	Extract from Home Dept. of Govt. of India.	Office to which the Propo- sition refers.	Nature of Charge.	Charges.			
					Year.	Ordinary.	Extraordinary.	Total.
								

Present scale.				Proposed scale.			
	Rs.	A.	P.		Rs.	A.	P.
<i>General Department.</i>							
1 Mechanical Engineer..	250	0	0	1 Superintendent.....	200	0	0
1 Sub-Engineer....	200	0	0	1 Storekeeper.....	80	0	0
1 Assistant Overseer ...	80	0	0	1 Assistant Storekeeper.....	50	0	0
1 Do. do.	50	0	0	1 Book keeper.....	40	0	0
1 Correspondence Clerk.	25	0	0	1 Correspondence Clerk.....	25	0	0
1 Assistant Clerk.....	10	0	0	1 Moochee.....	10	0	0
1 Tindal.....	10	0	0	1 Peon.....	7	0	0
22 Lascars at Rs. 6 each.	132	0	0	2 Sweepers.....	7	0	0
Total.....	757	0	0	Total.....	419	0	0
<i>Cleaning and Repairing Dept.</i>							
1 Mechanical Engineer.....	250	0	0	1 Mechanical Engineer.....	250	0	0
3 Working Carpenter Maistries...	52	8	0	3 Working Carpenter Maistries...	52	8	0
3 Do. Smith do.	52	8	0	3 Do. Smith do.	52	8	0
3 Hammer men.....	21	0	0	3 Hammer men.....	21	0	0
3 Bellows boys.....	10	8	0	3 Bellows boys.....	10	8	0
1 Syrang.....	14	0	0	1 Syrang.....	14	0	0
2 Tindals.....	20	0	0	2 Tindals.....	20	0	0
40 Lascars at Rs. 6 each.....	240	0	0	40 Lascars at Rs. 6 each.....	240	0	0
Total.....	660	8	0	Total.....	660	8	0
Grand Total.....	1,079	8	0	Grand Total.....	1,079	8	0

Fort Saint George,
2nd May 1859.

Department recommended for the sanction of the Government of India.

Proposition.						Casual or Extraordinary.	Grounds of Proposition.	Local Government's recommendation.	Orders of the Govt. of India.				
Permanent.		Temporary.		Period.	Period.				Home Dept.	Financial Department.	Remarks.	Remarks.	Orders.
Increase per month.	Decrease per month.	Increase per month.	Decrease per month.										
322	8	0					Vide letter to the Secretary to the Government of India, dated 2nd May 1859, No. 1014.	Favorable.					

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

Proceedings of a Committee assembled
by order of the Chief Engineer in respect
Proceedings No 9242 dated 1st April 1859.

President
Captain Orr. Supr Engineer

Members.
Captain Hitchens. Civil Architect
Captain Parshin. Garrison Engineer

The Committee having assembled pursuant to orders proceeds to examine the articles pointed out to it as those to which the Inspector General of Ordnance and Magazines alludes in his letter No 1081 of the 26th Ultimo, as "Punts," but which the Committee find are the several parts of three steam Dredges intended for the Eastern Suez Canal, and which, landed from the "Crissy," have been thrown down partly on the Light house, Esplanade and partly in Abercrombie's Battery or left on the sands of the beach

beach is so reckless indiscriminating a
manner, as to render it quite out of
the question even if under any cir-
cumstances it were possible for the
Committee to take any inventory
or to come to any conclusion as to the
correct receipt or condition of the Articles.

In fact as no packing
account appears to have been made
out with reference to the numbers and
marks which ought to have been placed
in each separate article it is quite
clear that the Vessels and machinery
cannot be pronounced upon as perfect
or otherwise till their various parts
now lying about in confusion are
assorted and fitted into their re-
spective places, which a work of time
under the most favorable circum-
stances will occupy many months
at Madras where neither suitable
means nor appliances for fitting to-
gether elaborate machinery exist.

The Committee regrets
to observe that besides the injury
sustained

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sustained by some portions of the
machinery, from rust particularly
some Crab winches still lying on the
slope of the beach, two large iron
castings which it will be difficult
to repair at Madras have been broken
and that many of the cases contain-
ing the component parts of the Engines
and other small articles are in ex-
trapolated or state, as to make it pro-
bable that their contents are not in
the best condition.

As the damp saline air
of the Beach is most detrimental
to all iron articles within its
reach if not protected by paint,
The Committee would recom-
mend that the three fine
dredges under inspection should
be put together as soon as possible
or that if they cannot be fitted
at Madras with despatch they
should be shipped for Masulipatam
or Coimbatore for employment on
the Kistna or Godavari Canals.

1936

Central Office of
Public Works
6. April 1859

1936
From

The Chief Engineer.

The Secretary to Government,
Public Works Department.
In continuation & in further illustration
of my Report to you dated 21st March, I do myself
the honor to forward herewith copy of Proceedings of
a professional Committee held at the particular
application of the Inspector General of Ordnance &
Magazines.

I have the honor to be,
Sir,
Your most obedient servant,
W. L. L. Esq.
Chief Engineer.

Central Office of P.W.
6. April 1859

Public
Works
Dept

1859 21st April
Enclosure letter

From
The Chief Engineer.

To
The Secretary to Govt.
P.W.D.

Dated 6th April 1859
Received

N^o 9367

1859 21st April

Proceeding of
a Committee as above
held by order of the
Chief Engineer to
examine and report
on certain articles.

Copy in L to L
7/19th May 1859 1859

Central Office of P.M.
 Fort St. George
 No 9112
 30 March 1859
 For the Secretary to Government

The Chief Engineer
 To
 The Secretary to Government
 P. W. S.
 Sir,

Public

Enclosure 1
 1 Ashot-Ek

I have the honor to report for the information of Government with reference to L. G. C. No 460 of the 26 July last that the additional expense required for completing the sheds at Acheramallee Battery amounts to Rupees (804) Eight hundred and four and 2/100. The increase has been caused by the supply of the Iron (furnished by the Principal Commissary of Ordnance without payment) having been exhausted, so that a timber frame work has to be supplied in place of the iron bars. A larger width

Copy to L & E
 27/10/58. No 1309. K.

213 April 1859

Copy to the Chief Engineer
 Copy to the Secretary to Government
 Copy to the Principal Commissary of Ordnance
 Copy to the Principal Engineer
 Copy to the Principal Surveyor
 Copy to the Principal Architect
 Copy to the Principal Carpenter
 Copy to the Principal Painter
 Copy to the Principal Blacksmith
 Copy to the Principal Saddler
 Copy to the Principal Shoemaker
 Copy to the Principal Tailor
 Copy to the Principal Barber
 Copy to the Principal Cook
 Copy to the Principal Baker
 Copy to the Principal Butcher
 Copy to the Principal Grocer
 Copy to the Principal Druggist
 Copy to the Principal Apothecary
 Copy to the Principal Medical Officer
 Copy to the Principal Veterinary Officer
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 Copy to the Principal Medical Officer
 Copy to the Principal Veterinary Officer

is also requisite for the boat shed
than was originally contemplated
and therefore a strong timber roof
will have to be constructed at much
additional expense.

I have the honor to be
Sir,
Yours most Obedt Servt

Wm. L. ...
Chief Engineer

The Secretary to Government

P. W. D.

...

...

...

JMD

N. 1013.

Extract from the Minutes of Consultation
Under date the 2^d ^{May} April, 1859.

Read the following
letters from the Chief Eng^r.

1 Here enter 21st & 30th March &
6th April 1859, N^o 8838, 9142
and 9367/.

Dr. In his letter of the
1st March 1859 the Chief Engineer
represents the necessity of having
an Engineering Store and Workshop
at the Presidency unconnected
with the Ordnance Department,
for the Custody and care of the
valuable Machinery already
received and still expected from
England; he details the arrange-
ments that would be required
for such an establishment, and
submits a Plan, and an

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ll
Mc
HLL

The Com^r J. J. Howard
15th Feb^r 1859. J. J. Howard
15th Feb^r 1859. J. J. Howard
15th Feb^r 1859. J. J. Howard
15th Feb^r 1859. J. J. Howard

From
The Chief Engineer
J. J. Howard
15th Feb^r 1859.

Date 30th Feb^r 1859
Dec 30 3 Feb^r 1859

J. J. Howard
15th Feb^r 1859.

Informing the
additional expenses
for completing the
Store at Alameda
Battery.

15th Feb^r 1859
With an order

The Government as
represented the Department as
estimated submitted with the
above letter for completing the
Store at Alameda Battery
and the various plans concerning
to complete the Store at Alameda
and from.
It is ordered that the
landings of the columns in
the estimate be left blank,
as they ought not to be.

J. J. Howard

Estimate amounting to Rs. 61,000 for the construction of the requisite Buildings near the Seven wells. In this subsequent letter of the 6th April he forwards the report of a Committee held to examine some ~~certain~~ Machinery landed from the "Crepy."

2. The Government are satisfied from the papers now before them and from previous correspondence on the same subject that the plan of a separate work-yard and stores room for the Public Works Department is quite necessary. The present system of having all the Engineer plant and Machinery in the Arsenal has proved exceedingly inconvenient, and besides the inconvenience, the Arsenal has been found deficient in accommodation

on a piece of ground which has been selected within the limits of Blacktown and

for ^{a large part of} ~~many~~ all the articles that have been sent out by the Home Government; as a consequence valuable Machinery and Stores in great quantity are now lying in Abercrombie's battery, wholly exposed to the weather, except where temporary sheds have been put up, ~~and~~ ~~inadequately~~ ~~sufficient~~, besides being subjected to much damage in various ways. On the ground therefore of the positive loss actually suffered under the present practice, the Govt. ~~will be prepared~~ ^{resolves} to apply to the Government of India for immediate sanction for the Buildings and Establishment asked for by the Chief Engineer, both of which they consider ~~as soon as some further in-~~ ~~formation on the same subject~~ ^{is received} ~~is received~~.

3. Referring to the site selected for the proposed Store Rooms

Rooms, the Collector of Madras will be requested to ascertain and report whether the price of land at the seven wells is really available, and if so, on what terms.

4. The establishment proposed for the duties of landing, receiving, safe keeping, repairing, and issuing of Stores involve a charge inclusive of 240 Rs. for 16 lascars, of Rs 1079-8- but deducting the Agency available, the net charge for the additional establishment will be only Rs 322-8-.

In reply to the term 'Lascar' the Govt desire it to be distinctly understood that the men employed under that designation will not be entitled to pension like Military lascars. The Govt prefer the employment of day laborers on the occasions require, to the permanent employment of Lascars, both as being more economical, and as entailing no expense on the state for Pensions; and they request that Colonel Hauber will revise his scheme accordingly.

In reply to the term 'Lascar' the Govt desire it to be distinctly understood that the men employed under that designation will not be entitled to pension like Military lascars.

received with Col Hauber's
Letter of the 30 March

5. As soon as it shall be ascertained that the ground selected is available ~~in the mean time the Government~~ the Engineer in Charge will be prepared to authorize the Chief Engineer to organize an Establishment out of the existing means, and to erect temporary sheds for the reception of the stores and Machinery to be moved from Shermombie's Battery and the Arsenal. ^{The} ~~Chief Engineer~~ ^{Superintendent} ~~Engineer~~ will explain more fully the measures to which he has alluded generally in Para 13 of his letter of the 21st March. The Government conclude that it is not ^{now} necessary now to sanction the estimate for the completing the sheds in Shermombie's Battery; at all events they

6. The Government
^{are of opinion} ~~think~~ that the plan
of procuring Engineering
stores from E. Land
on a separate indent
as proposed in para
8 of the ^{Ch. Engrs} letter of the
21st March is very de-
sirable, and they
agree with that Officer
that the separation
of the Public Works
stores from those
of other branches
of

315

[illegible]

7. Reference has been already made in the Minutes of the preliminary meeting. Items furnished by H. S. to the Rep. to Col. Bell, to be nearly of establishing an efficient system of acct^s & audit in the P. W. D. & the Govt will expect to receive an early commⁿ from that Office on the subject, including a sample, effective set of Store acct^s.

15 Copies Chief Engr. Pimp-3'
1 - Col. of Madras.

I have been thinking
of you very much lately
and wondering how you are
getting on. I hope you are
well and happy.

Copy in a L to E.
8/19th May 1859 No 12.

Public Works 1859 Dept.
Cons: 3rd May.

No 1013.

From the Madras Government.

D^d 2nd May 1859.

From Court of Judica. 4th June 1859
Cons: 1st July - 55. 56.

From the Chief Eng^r 27/13th June 1859

Oct 15th Cons: 1st July 67-68

From Do 27th Aug 1859 Cons 227th

From Do 27th Nov 1859. Cons 3002 in Cons.

From Do 27th Aug 1859 Cons 1065 in

Shipping orders on the
necessity of having an Engineer
in charge and workshop at
the Presidency for the custody
of the machinery already re-
ceived and still expected from
England.

With letter to the Court of
India. No 1014 D. 5.
2nd May 1859.

No 28 at 31.

13th April 1859