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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works DEPARTMENT

G.O. No. / B.P. No. 2123-W

Press. / Mis.

Dated 11-9-1885

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

D—the following papers :—

From D. C. GORDON, Esq., Examiner, Public Works Accounts, to the Secretary to Government, Public Works Department, dated Madras, 24th August 1885, No. 54 W.

I have the honor to forward, for information and orders of Government, letter 656 W., dated 28th July 1885, from the General Superintendent, Public Works rkshops, with the annual accounts of the shops for 1884-85, and note by Rainier, Deputy Examiner.

2. The main points to be noticed are as follows, comparing the years 1883-84 1884-85 :—

	1883-84.	1884-85.
	RS.	RS.
Capital	1,80,582	2,02,002
Financial and general liabilities	37,999	41,397
Outturn	1,19,500	1,42,322
Establishment charges	18,823	20,331
Average centage added to the actual cost of outturn ...	48·3	42·4
Loss	1,886	7,648
Percentage of financial and general liabilities on capital.	21·04	20·49
Percentage of centage charges on actual cost of outturn on capital	21·50	20·98

The value of outturn for this department was Rs. 1,12,431, which includes average of 42·4 per cent. over actuals, paid for by divisions, and, in addition, ernment meets the loss of Rs. 7,648.

3. There is no object in adopting the course proposed in paragraph 5 of the uty Examiner's report, for it would merely transfer the interest charge from a ent to a subsequent year's account, and it is not worth while revising practice for mall a result.

4. The attention of the General Superintendent is required to the points noted in graphs 8 and 11.

5. There is no objection to the discontinuance of the returns mentioned in graph 13.

ENCLOSURE.

From H. O'CONNELL, Esq., General Superintendent, Public Works Workshops, to the Examiner of Public Works Accounts, dated Madras, 28th July 1885, No. 656 W.

I have the honor to forward, for submission to Government, the accounts of the Presidency lic Works Workshops for 1884-85.

2. During the year the workshops became liable to Government—

	Rs.	A.	P.
(1) To cash drawn from treasury	1,18,000	0	0
(2) To value of stores received without payment	52,996	0	1
(3) To interest on capital	8,080	1	6
(4) To pension and leave allowances	2,221	15	9
Total ...	1,81,298	1	4

3. On account of this amount the following payments were made :—

(1) Payments into treasury	11,010	12	1
(2) Approved invoices	1,42,758	6	0
(3) Balance of interest due to Government	7,648	2	0
Total ...	1,61,417	4	1
Leaving for increase to capital	19,880	13	3

4. The gross profits amounted to 42,384 15 6
against which charges aggregating 50,033 1 6

have been debited, leaving a balance of 7,648 2 0
interest due to Government.

5. The opening and closing balances of the capital accounts, as noted in the following table, show an increase to capital of Rs. 19,880-13-3 :—

—	Capital on 31st March 1885.	Capital on 31st March 1884.	Increase.	Decrease.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Block	83,106 14 1	85,677 3 1	...	2,570 5 0
Machinery and plant	71,427 14 7	69,681 12 1	11,846 2 6	...
Mechanical department	16,793 1 9	9,533 12 11	7,259 4 10	...
Instrument do.	7,179 4 10	6,950 12 0	228 8 10	...
Raw materials	34,430 12 2	26,609 2 9	7,821 9 6	...
Sales	536 1 6	3,142 4 0	...	2,606 3 0
Public department	8,613 9 0	10,107 8 0	...	1,494 8 0
Manufacture	...	400 0 0	...	400 0 0
Deduct bills payable ...	2,22,087 0 5	2,02,002 6 10	27,155 9 7	7,071 0 6
	1,657 0 0	1,453 3 8	1,657 0 0	1,453 3 8
	2,20,430 0 5	2,00,549 3 2	25,498 9 7	5,617 12 4
	2,00,549 3 2	...	5,617 12 4	...
	19,880 13 3	...	19,880 13 3	...

6. The results of the working for the year under review as compared with those of three previous years are as follow :—

—	1881-82.	1882-83.	1883-84.	1884-85.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Outturn	2,34,363 3 4	1,39,936 10 4	1,19,595 13 7	1,42,322 7 1
Net profit	...	...	...	...
Net loss or interest unpaid	6,823 1 2	2,928 3 7	1,885 13 4	7,648 2 0

7. The loss in the Mechanical department was owing principally to the high rates paid for teak timber, while the estimated rates were charged for and recovered for wood-works supplied.

I have only to reiterate the opinion of Captain Baddeley, R.E., the late General Superintendent, that the works cannot be economically supervised unless it is thought expedient to cancel the restriction contained in G.O., No. 2064 W., dated 12th April 1882, by which the workshop is almost entirely closed to every department of Government except the Public Works Department, and I fear the present suspension of important works in the Public Works Department will greatly tell on the workshops. I would therefore submit the expediency of removing the restrictions and throwing the shops open to all departments of the service.

2123/2

Order—dated 11th September 1885, No. 2123 W., Public Works.

With his letter above recorded, the Examiner, Public Works Accounts, submits the annual accounts of the Presidency Public Works Workshops for the year 1884-85.

2. The liabilities during the year amounted to Rs. 1,81,298, while the assets were Rs. 1,73,650, showing a net loss on the year's transactions of Rs. 7,648.

3. The outturn of the year was Rs. 1,42,322 against Rs. 1,19,506 in the preceding year and Rs. 1,39,937 in 1882-83.

4. The Superintending Engineer, V Circle, will report on the question of the continuance or otherwise of existing orders restricting the operations of the workshops in regard to work for other departments and for the general public. These orders have now been in force sufficiently long to enable their full effect to be properly determined. In submitting his report, the Superintending Engineer will enter fully into the matter and place Government in possession of the facts as they at present exist.

5. In paragraph 5 of G.O., No. 360 W., dated 9th February 1884, it was remarked that the repair of Government mathematical instruments, as carried out by Messrs. Orr and Sons of Madras, was not altogether satisfactory as to both quality and price ; and in their report recorded in G.O., No. 1494 W., dated 16th June 1884, the committee appointed to report on the workshops recommended the retention of the Mathematical instruments' shops. On a further representation from Messrs. Orr and Sons, the Government, in Proceedings, dated 10th March 1885, No. 559 W., directed that that firm should be intrusted with the repair of mathematical instruments so far as practicable ; and in paragraph 2 of that order the Superintending Engineer was directed to report in due course on the character of the work and its cost, as compared with that executed at the Public Works Workshops. The Superintending Engineer will now state his views on that point, in connection with the report called for in paragraph 4 of these proceedings.

6. The Government do not consider that any advantage would be gained by adopting the course proposed in paragraph 5 of the Deputy Examiner's report.

7. The attention of the General Superintendent will be directed to paragraphs 8 and 11 of that report, and he will note the Deputy Examiner's remarks therein for future guidance.

8. The submission of the returns mentioned by the Deputy Examiner in paragraph 13 of his report may be discontinued.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, V Circle.
„ Examiner, Public Works Accounts.

Exd. J. Henricus.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated September, 11th.

Recd. *Encl.*

G.O., 11th Sept. 1885, No. 2123 W.

SEPTEMBER.

Presidency Public Works Workshops

Orders on accounts of the — for 1884-85.

2123/3

Appendix to Proceedings of Government, No. 2123 W., dated 11th September 1885.

MEMORANDUM ON THE ANNUAL ACCOUNTS OF THE PUBLIC WORKS DEPARTMENT WORKSHOPS FOR 1884-85.

The assets of this concern on the 31st March 1885 were—

	Rs.	A.	P.
Block	83,106	14	1
Every building and its value according to the revaluation of 1883 is recorded in a book; the total works up to the above, less amount of depreciation written off each year; it would be well to show such depreciation as a deduction in the case of each building, so that the aggregate of all buildings will exactly equal the balance of block account.	71,427	14	7
Machinery and plant			
Same remarks as above, except that the book is incomplete and does not work up to the total. But there is evidently nothing in this account which should not be there.			
Outlay on unfinished jobs—			
(1) In the Mechanical department	16,793	1	9
(2) In the Instrument do.	7,179	4	10
According to S.O., No. 62 of 1885, introducing into the Public Works Code paragraphs 2283 A to E; all expenditure of this kind will now be debited in transfer monthly to the division which indented for the work, or at all events the transfer must be settled at the end of the official year, so that there will be no further annual appearance of this kind of asset.	34,430	12	2
Raw materials			
The General Superintendent stated that the balance was verified, and that all component items were found to be of good value.			
Bills recoverable—			
(1) From private parties	536	1	0
(2) From public departments	8,613	0	0

(1) This includes an item of Rs. 16 due from Manager, South Indian Railway Press, Madura, regarding which there is delay, also Rs. 11-6-0 due from Ramasawmy, a packer in the shops, who will be made to pay up.

(2) This includes due from—

	Rs.	A.	P.
Consulting Architect	6,371	4	0
Consulting Engineer for Railways ...	14	0	0
Executive Engineer, Nilgiri division ...	54	2	0
Collector of South Canara	47	5	0
District Judge, Kistna	117	1	0

These should all be collected.

Total, Assets ...	2,22,087	0	5

2. The liabilities on the 31st March 1885 were—

Due to suppliers of stores	1,657	0	0
This is merely the amount due for supplies in the previous month or so; nothing is long outstanding.			
Balance, Capital	2,20,430	0	5
This of course is what the concern was worth on the 31st March 1885, or what Government had in it. On the same date last year the figure was Rs. 2,00,549 (*vide* paragraph 5).			

3. The amount of outturn in 1884-85, stated by the General Superintendent as Rupees 1,42,322-7-1, is thus made up :—

				Rs.	A.	P.
Value of the work done for the Public Works Department ...				1,12,431	1	0
For other departments				26,434	8	0
	Rs.	A.	P.			
Mechanical department	1,10,070	8	0			
Instrument do.	28,795	1	0			
Value of work done for semi-public corporations and private parties				1,484	1	0
Raw materials sold—						
(1) To private parties				300	14	0
(2) By auction				1,271	15	1
Value of weighing-machines transferred to stores (*vide* paragraph 4 of G.O., No. 2798 W., of 8th November 1884) ...				400	0	0
Total ...				1,42,322	7	1
The outturn in 1883-84 was				1,19,505	13	7

4. The value of work done, as stated above, includes, however, the centages which were added, in order to try to avoid loss. Such centages amount for the year to Rs. 42,385, or 42·4 per cent. on the total outturn, or 43·26 per cent. on the actual outlay on jobs. As explained in paragraph 10 of the last audit memorandum, the restricted outturn of the shops costs the Public Works Department heavy charges for all work that is done for it. If, notwithstanding the orders restricting the operations of the shops, much work is still offered from other departments and the public, it may be that private enterprise would be as well protected by charging all such outside work much higher rates than Public Works Department work. It would, of course, cheapen Public Works Department work to serve other departments and the public if it could be done without competing with, or charging as low rates as, Messrs. Massey or Orr, or the like.

The outturn of 1880-81 was—	Rs.
Public Works Department jobs	88,053
Other departments	75,304
Semi-public jobs	22,939
Private	21,298
Raw materials sold	1,294
Total ..	2,98,888

5. The interest charged upon the capital invested in these shops should be calculated on the balance of the balance sheet of the previous year, or on the opening balance of the current year's capital account, namely, Rs. 2,00,549 (*vide* end of paragraph 2). It has been erroneously calculated on the total assets of each year's balance sheet, or as the *profit and loss* account rather clumsily says "on the opening balance as per statement, *plus* amount due for purchases."

6. The office of the General Superintendent of Workshops was last examined on the 5th and 6th September 1884 (*vide* G.O., No. 2798 W., dated 8th November 1884); the examination this year took from the 12th till the 14th August, Mr. Hugh O'Connell, the General Superintendent, and P. Cothundasawmy Pillay, the head clerk, being present.

7. The balance of the General Superintendent's drawing account on the 31st July 1885 was proved correct. The cash book was here and there audited. It is understood that the General Superintendent carefully audits this book every two or three days, and a thorough reaudit for the entire year was considered unnecessary.

8. The cash expenditure of the shops consists of—

1. Payment of permanent staff.
2. Do. of working staff.
3. Do. of extra working staff.
4. Do. of piece-workers.
5. Do. of bills for stores' purchases.
6. Do. of railway freights, steamer freights, &c.
7. Do. of office contingencies.

The laborers and others under 2 and 3 were found to have received regular payment and given good receipts, except the coolies, regarding which there is a nominal muster roll book for each department, and sometimes there is no certificate of payment or individual acknowledgment. It was arranged some time ago to debit a new head of account "Labor" with all payments of labor, that head being credited with the value of all labor employed, and this arrangement works well. There should be a comparison possible; indeed it should be made daily between the nominal muster-rolls of men employed on jobs and the *time sheets* of labor so employed. At present the time sheet omits *hours*, *rate* and *amount*; also the cash book in recording the payment of any labor should quote the nominal muster roll as voucher.

9. Payments for piece-work were audited and found in order, also other payments.

10. The raw materials of the shops are received from the Public Works Stores, from the Arsenal, from the Medical Stores, from the Gun Carriage Factory, from guaranteed railways, and

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from tradesmen as aforesaid; indents are recorded in books. There is a register of receipts, and a thorough examination of this part of the accounting (receipts of raw materials) found everything in excellent order.

11. As regards the issues, there is a slight imperfection in regard to *sales by auction*, which are not sufficiently particularised. Sales, for instance, in the last year Rs. 1,271-15-1, as per cash book receipts, could not be traced. The journal entry "cash debtor to sales" included all sales; the ledger account "sales" showing its creditor "raw materials" and its debtor "cash" in gross as for "sundries;" the account "raw materials" being also credited by debit to "sales" for "sundries." What is wanted is that when raw materials are sent to auction, a copy of the list to auctioneer should be entered in a book and the original value of each item stated; the amount realised will be then credited to "raw materials" and debited to "sales" when the account sale comes, and the actual proceeds will be credited to "sales" by debit to "cash" on receipt of the proceeds.

12. The journal was checked with the cash abstract and adjustment books, and also with the register of approved invoices. All these books are very neat. The register of workshops, jobs was also checked here and there, also the charges for steam (which are all debited to *general charges*) and the account of foundry.

13. The schedules A to F, referred to in paragraph 33 of the report of the stock committee, printed with G.O., No. 914 W., of 4th April 1881, have been regularly rendered to the Examiner's Public Works Accounts office with the accounts, the object being to prominently notice certain important points referred to in the above paragraph and numbered from I to IV.

Now, however, that the operations of the workshops are restricted to the needs of the Public Works Department (G.O., No. 1494 W., of 16th June 1884), the first point of the four no longer exists.

As regards the second point, the introduction of the heads "*Block*" and "*Machinery*" into the cash account current would apparently keep this prominently under notice.

Part III is effectually investigated at these inspections.

It appears that the order in part IV has been countermanded in paragraph 4 of G.O., No. 1884, of 2nd June 1881.

So that as there is really no longer any need of rendering these returns, if the preparation of the cash account current is altered as above, they may well be discontinued.

14. The office is in good order.

MADRAS,
19th August 1885.

(Signed) H. RAINIER,
Deputy Examiner, Public Works Accounts.

Appendix to Proceedings of Govt. No 2123 W dy 11th September 85.

MEMORANDUM ON THE ANNUAL ACCOUNTS OF THE P.W.D.WORKSHOPS FOR 1884-85.

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THE ASSETS OF THIS CONCERN ON THE 31ST.MARCH 1885 WERE:-

BLOCK.....RS. 83106-14- 1

EVERY BUILDING AND ITS VALUE ACCORDING TO THE REVALUATION OF 1883 IS RECORDED IN A BOOK; THE TOTAL WORKS UP TO THE ABOVE, LESS AMOUNT OF DEPRECIATION WRITTEN OFF EACH YEAR - IT WOULD BE WELL TO SHOW SUCH DEPRECIATION AS A DEDUCTION IN THE CASE OF EACH BUILDING - SO THAT THE AGGREGATE OF ALL BUILDINGS WILL EXACTLY EQUAL THE BALANCE OF BLOCK ACCOUNT.

MACHINERY AND PLANT.....RS. 71,427-14- 7

SAME REMARKS AS ABOVE, EXCEPT THAT THE BOOK IS INCOMPLETE AND DOES NOT WORK UP TO THE TOTAL. BUT THERE IS EVIDENTLY NOTHING IN THIS ACCOUNT WHICH SHOULD NOT BE THERE.

OUTLAY ON UNFINISHED JOBS:-

(1) IN THE MECHANICAL DEPARTMENT.....RS. 16793- 1- 9
(2) IN THE INSTRUMENT DEPARTMENT.....RS. 7,179- 4-10

ACCORDING TO STANDING ORDER NO.62 OF 1885, INTRODUCING INTO THE P.W.CODE, PARAS 2283 A TO E - ALL EXPENDITURE OF THIS KIND WILL NOW BE DEBITED IN TRANSFER MONTHLY TO THE DIVISION WHICH INDENTED FOR THE WORK, OR AT ALL EVENTS THE TRANSFER MUST BE SETTLED AT THE END OF THE OFFICIAL YEAR, SO THAT THERE WILL BE NO FURTHER ANNUAL APPEARANCE OF THIS KIND OF ASSET.

RAW MATERIALS.....RS. 34430-12- 2

THE GENERAL SUPERINTENDENT STATED THAT THE BALANCE WAS VERIFIED, AND THAT ALL COMPONENT ITEMS WERE FOUND TO BE OF GOOD VALUE.

BILLS RECOVERABLE

(1) FROM PRIVATE PARTIES.....RS. 536- 1- 0
(2) FROM PUBLIC DEPARTMENTS.....RS. 8613- 0- 0

(1)-THIS INCLUDES AN ITEM OF RS.16 DUE FROM

MANAGER S.I.RAILWAY PRESS, MADURA, REGARDING WHICH THERE IS DELAY, ALSO RS.11-6-0 DUE FROM RAMASAWMY, A PACKER IN THE SHOPS, WHO WILL BE MADE TO PAY UP.

(2) THIS INCLUDES DUE FROM:-

CONSULTING ARCHITECT.....RS.6371-4-0
CONSULTING ENGINEER FOR RAILWAYS.....RS. 14-0-0
EXECUTIVE ENGINEER NILGIRI DIVISION.....RS. 54-8-0
COLLECTOR OF SOUTH CANARA...RS. 47-5-0
DISTRICT JUDGE KISTNA.....RS. 117-1-0

THESE SHOULD ALL BE COLLECTED.

TOTAL ASSETS.....RS.223087- 0- 5

2. THE LIABILITIES ON THE 31ST.MARCH 1885 WERE:-

DUE TO SUPPLIERS OF STORES.....RS. 1,657- 0- 0

THIS IS MERELY THE AMOUNT DUE FOR SUPPLIES IN THE PREVIOUS MONTH OR SO, NOTHING IS LONG OUTSTANDING.

BALANCE, CAPITAL.....RS.220430- 0- 5

THIS OF COURSE IS WHAT THE CONCERN WAS WORTH ON THE 31ST.MARCH 1885 - OR WHAT GOVERNMENT HAD IN IT, ON THE SAME DATE LAST YEAR THE FIGURE WAS RS.200,549 (VIDE PARA 5).

3. THE AMOUNT OF OUTTURN IN 1884-85 STATED BY THE GENERAL SUPERINTENDENT AS RS.142,322-7-1 IS THUS MADE UP:-

VALUE OF THE WORK DONE FOR THE P.W.D....RS.112431- 1- 0
FOR OTHER DEPARTMENTS.....RS. 26434- 8- 0
MECHANICAL DEPARTMENT..RS.11007-8-0
INSTRUMENT DEPARTMENT..RS. 2879-1-0

VALUE OF WORK DONE FOR SEMI-PUBLIC CORPORATIONS, AND PRIVATE PARTIES.....RS. 1484- 1- 0

RAW MATERIALS SOLD:-
(1) TO PRIVATE PARTIES.....RS. 300-14- 0
(2) BY AUCTION.....RS. 1271-15- 1

VALUE OF WEIGHING MACHINES TRANSFERRED TO STORES VIDE PARA 4 OF G.O..NO. 2798 W OF 8TH.NOVEMBER 1884.....RS. 400- 0- 0

RS.142,322- 7- 1

THE OUTTURN IN 1883-84 WAS.....RS.119505-13- 7

4. THE VALUE OF WORK DONE, AS STATED ABOVE, INCLUDES HOWEVER THE CENTAGES WHICH WERE ADDED, IN ORDER TO TRY TO AVOID LOSS. SUCH CENTAGES AMOUNT FOR THE YEAR TO RS.42,385. OR 42·4 PER CENT ON THE TOTAL OUTTURN, OR 43·26 PER CENT ON THE ACTUAL OUTLAY ON JOBS. AS EXPLAINED IN PARA 10 OF THE LAST AUDIT MEMORANDUM THE RESTRICTED OUTTURN OF THE SHOPS COSTS THE P.W.DEPARTMENT HEAVY CHARGES FOR ALL WORK THAT IS DONE FOR IT. IF, NOTWITHSTANDING THE ORDERS RESTRICTING THE OPERATIONS OF THE SHOPS, MUCH WORK IS STILL OFFERED FROM OTHER DEPARTMENTS AND THE PUBLIC, IT MAY BE THAT PRIVATE ENTERPRISE WOULD BE AS WELL PROTECTED BY CHARGING ALL SUCH OUTSIDE WORK MUCH HIGHER RATES THAN P.W.DEPARTMENT WORK - IT WOULD OF COURSE CHEAPEN P.W.DEPARTMENT WORK TO SERVE OTHER DEPARTMENTS AND THE PUBLIC IF IT COULD BE DONE WITHOUT COMPETING WITH OR CHARGING AS LOW RATES AS MESSRS.MASSEY, OR ORR, OR THE LIKE.

THE OUTTURN OF 1880-81 WAS:-

P.W.DEPARTMENT JOBS...RS. 88053
OTHER DEPARTMENTS.....RS. 75304
SEMI-PUBLIC JOBS.....RS. 22,939
PRIVATE.....RS. 21298
RAW MATERIALS SOLD....RS. 1294

RS.208888

5. THE INTEREST CHARGED UPON THE CAPITAL INVESTED IN THESE SHOPS SHOULD BE CALCULATED ON THE BALANCE OF THE BALANCE SHEET OF THE PREVIOUS YEAR OR ON THE OPENING BALANCE OF THE CURRENT YEAR'S CAPITAL ACCOUNT NAMELY RS.200,549 (VIDE END OF PARA 2) - IT HAS BEEN ERRONEOUSLY CALCULATED ON THE TOTAL ASSETS OF EACH YEAR'S BALANCE SHEET, OR AS THE PROFIT AND LOSS ACCOUNT RATHER CLUMSILY SAYS 'ON THE OPENING BALANCE AS PER STATEMENT PLUS AMOUNT DUE FOR PURCHASES'.

6. THE OFFICE OF THE GENERAL SUPERINTENDENT OF WORKSHOPS WAS LAST EXAMINED ON THE 5TH. AND 6TH. SEPTEMBER 1884 (VIDE G.O. NO.2798 W. DATED 8TH. NOVEMBER 1884); THE EXAMINATION THIS YEAR TOOK FROM THE 12TH. TILL THE 14TH. AUGUST, MR. HUGH O'CONNELL THE GENERAL SUPERINTENDENT AND P. COTHUNDASAMY PILLAY THE HEAD CLERK, BEING PRESENT.

7. THE BALANCE OF THE GENERAL SUPERINTENDENT'S DRAWING ACCOUNT ON THE 31ST. JULY 1885 WAS PROVED CORRECT. THE CASH BOOK WAS HERE AND THERE AUDITED. IT IS UNDERSTOOD THAT THE GENERAL SUPERINTENDENT CAREFULLY AUDITS THIS BOOK EVERY TWO OR THREE DAYS, AND A THOROUGH RE-AUDIT FOR THE ENTIRE YEAR WAS CONSIDERED UNNECESSARY.

8. THE CASH EXPENDITURE OF THE SHOPS CONSISTS OF:-

1. PAYMENT OF PERMANENT STAFF.
2. ——DO—— WORKING STAFF.
3. ——DO—— EXTRA WORKING STAFF.
4. ——DO—— PIECE WORKERS.
5. ——DO—— BILLS FOR STORES PURCHASES.
6. ——DO—— RAILWAY FREIGHTS, STEAMER FREIGHTS ETC.
7. ——DO—— OFFICE CONTINGENCIES.

THE LABORERS AND OTHERS UNDER 2 AND 3 WERE FOUND TO HAVE RECEIVED REGULAR PAYMENT AND GIVEN GOOD RECEIPTS, EXCEPT THE COOLIES, REGARDING WHICH THERE IS A NOMINAL MUSTER ROLL BOOK FOR EACH DEPARTMENT AND SOMETIMES THERE IS NO CERTIFICATE OF PAYMENT OR INDIVIDUAL ACKNOWLEDGMENT. IT WAS ARRANGED SOME TIME AGO TO DEBIT A NEW HEAD OF ACCOUNT 'LABOR' WITH ALL PAYMENTS OF LABOR, THAT HEAD BEING CREDITED WITH THE VALUE OF ALL LABOR EMPLOYED, AND THIS ARRANGEMENT WORKS WELL. THERE SHOULD BE A COMPARISON POSSIBLE-INDEED IT SHOULD

Exp 3

BE MADE-DAILY-BETWEEN THE NOMINAL MUSTER ROLLS OF MEN EMPLOYED ON JOBS AND THE TIME SHEETS OF LABOR SO EMPLOYED - AT PRESENT THE TIME SHEET OMITS HOURS, RATE AND AMOUNT - ALSO THE CASH BOOK IN RECORDING THE PAYMENT OF ANY LABOR SHOULD QUOTE THE NOMINAL MUSTER ROLL AS VOUCHER. 2123/7

9. PAYMENTS FOR PIECEWORK WERE AUDITED AND FOUND IN ORDER, ALSO OTHER PAYMENTS.

10. THE RAW MATERIALS OF THE SHOPS ARE RECEIVED FROM THE P.W. STORES, FROM THE ARSENAL, FROM THE MEDICAL STORES, FROM THE GUN CARRIAGE FACTORY, FROM GUARANTEED RAILWAYS AND FROM TRADESMEN AS AFORESAID; INDENTS ARE RECORDED IN BOOKS - THERE IS A REGISTER OF RECEIPTS, AND A THOROUGH EXAMINATION OF THIS PART OF THE ACCOUNTING (RECEIPTS OF RAW MATERIALS) FOUND EVERY THING IN EXCELLENT ORDER.

11. AS REGARDS THE ISSUES THERE IS A SLIGHT IMPERFECTION IN REGARD TO SALES BY AUCTION, WHICH ARE NOT SUFFICIENTLY PARTICULARISED. SALES FOR INSTANCE IN THE LAST YEAR RS.1271-15-1 AS PER CASH BOOK RECEIPTS, COULD NOT BE TRACED. THE JOURNAL ENTRY 'CASH DEBTOR TO SALES' INCLUDED ALL SALES. THE LEDGER ACCOUNT 'SALES' SHEWING ITS CREDITOR 'RAW MATERIALS' AND ITS DEBTOR 'CASH' IN GROSS AS FOR 'SUNDRIES'. THE ACCOUNT 'RAW MATERIALS' BEING ALSO CREDITED BY DEBIT TO 'SALES' FOR 'SUNDRIES'. WHAT IS WANTED IS THAT WHEN RAW MATERIALS ARE SENT TO AUCTION, A COPY OF THE LIST TO AUCTIONEER, SHOULD BE ENTERED IN A BOOK AND THE ORIGINAL VALUE OF EACH ITEM STATED; THE AMOUNT REALISED WILL BE THEN CREDITED TO 'RAW

MATERIALS' AND DEBITED TO 'SALES' WHEN THE ACCOUNT SALE COMES, AND THE ACTUAL PROCEEDS WILL BE CREDITED TO 'SALES' BY DEBIT TO 'CASH', ON RECEIPT OF THE PROCEEDS.

12. THE JOURNAL WAS CHECKED WITH THE CASH ABSTRACT AND ADJUSTMENT BOOKS - AND ALSO WITH THE REGISTER OF APPROVED INVOICES. ALL THESE BOOKS ARE VERY NEAT. THE REGISTER OF WORKSHOPS JOBS WAS ALSO CHECKED HERE AND THERE, ALSO THE CHARGES FOR STEAM WHICH ARE ALL DEBITED TO GENERAL CHARGES; AND THE ACCOUNT OF FOUNDRY.

13. THE SCHEDULES A TO F REFERRED TO IN PARA 33 OF THE REPORT OF THE STOCK COMMITTEE PRINTED WITH G.O. NO.514 W. OF 4TH.APRIL 1881 HAVE BEEN REGULARLY RENDERED TO THE EXAMINER'S P.W.ACCOUNTS OFFICE WITH THE ACCOUNTS, THE OBJECT BEING TO PROMINENTLY NOTICE CERTAIN IMPORTANT POINTS REFERRED TO IN THE ABOVE PARA AND NUMBERED FROM I TO IV.

NOW HOWEVER THAT THE OPERATIONS OF THE WORKSHOPS ARE RESTRICTED TO THE NEEDS OF THE P.W.D. G.O. NO.1494 W. OF 16TH.JUNE 1884, THE FIRST POINT OF THE FOUR, NO LONGER EXISTS.

AS REGARDS THE SECOND POINT, THE INTRODUCTION OF THE HEADS 'BLOCK' AND 'MACHINERY' INTO THE CASH ACCOUNT CURRENT WOULD APPARENTLY KEEP THIS PROMINENTLY UNDER NOTICE.

PART III IS EFFECTUALLY INVESTIGATED AT THESE INSPECTIONS.

IT APPEARS THAT THE ORDER IN PART IV HAS BEEN COUNTER-MANDED IN PARA 6 OF G.O. NO.1884 OF 2ND.JUNE 1881.

SO THAT AS THERE IS REALLY NO LONGER ANY NEED OR RENDERING

524

THESE RETURNS, IF THE PREPARATION OF THE CASH ACCOUNT CURRENT IS ALTERED AS ABOVE, THEY MAY WELL BE DISCONTINUED.

14. THE OFFICE IS IN GOOD ORDER.

2123/8.

H Rainier

MADRAS
19TH.AUGUST 1885.

DY.EXAMINER P.W.ACCOUNTS.

29/2415 Jot 22/9

[Form No. 1.]

N.B.—In any future communication on this subject, the number and date of this letter should be quoted.

No. 54 W. 2123/9

From

THE EXAMINER,
PUBLIC WORKS ACCOUNTS,
MADRAS.

To

The Secretary to Government,
Public Works Department.

Madras, 24th August 1885.

Sir,

I have the honor to forward for information and orders of Government letter No.656 W. dated 28th. July 1885 from the General Superintendent P. W. Workshops, with the Annual Accounts of the Shops for 1884-85, and note by Mr. Rainier Dy. Examiner.

2. The main points to be noticed are as follows, comparing the years 1883-84 and 1884-85.

	1883-84	1884-85.
Capital.....Rs.	1,80,582	2,02,003
Financial & General Liabilities. Rs.	37,999	41,397
Outturn.....Rs.	1,19,500	1,42,322
Establishment charges.....Rs.	18,823	20,331
Average centage added to the actual cost of outturn.....	48·3	42·4
Loss.....Rs.	1,888	7,648
Percentage of Financial and General Liabilities on Capital.....	21·04	20·49
Percentage of centage charges on actual cost of outturn on Capital.....	21·50	20·98

The value of outturn for this Department was Rs. 1,13,431, which includes an average of 43·4 per cent over actuals,

paid for by Divisions, and, in addition, Government meets the loss of Rs.7,648.

3. There is no object in the adopting the course proposed in para 5 of the Dy. Examiner's report, for it would merely tranfer the Interest charge from a current to a subsequent year's Account, and it is not worthwhile revising practice for so small a result.

4. The attention of the General Superintendent is required to the points noted in paras 8 and 11.

5. There is no objection to the discontinuance of the returns mentioned in para 13.

I have the honor to be,

Sir,

Your Most Obedient Servant.

D.C. Evans

Examiner P.W. Accounts.

2123/10

No 1574 C. 16.9.81.
G.C. No 2503 W. 6.9.83
" " 2054 W. 30.8.80
" " 711 W. 18.3.82.
No 2218. 10.6.82.
P.C. No 1763 W. 11.7.82.
G.C. No 2664 W. 12.8.82
" " 2488 W. 25.9.82
" " 360 W. 9.2.80
" " 1966 W. 11.8.84
P.C. No 25-27 W. 14.10.84
G.C. No 2798 W. 8.11.84
" " 1384 W. 2.6.81
" " 914 W. 4.4.81.

(1) Rch 7454

From,

The Examiner P.W. Accounts,

Madras.

To,

The Secretary to Government,

P.W. Department.

No. 54 W

Dated 24th August 1885.

Recd. 25 " ——

Enclos. 4

Annual Accounts of the P.W. Stores for 1884-85. Forwarded and a Note by the Dy. Examiner for the orders of Govt.

P.W. 1378

PRESIDENCY PUBLIC WORKS WORKSHOPS,

Madras, 28th July 1885.

No. 656 W.

From

THE GENERAL SUPERINTENDENT,

PUBLIC WORKS WORKSHOPS,

To

THE Examiner of

P. W. Accounts

Madras

Enclosures.

SIR,

I have the honor to forward for submission to Government the accounts of the Presidency Public Works Workshops for 1884-85.

2. During the year the Workshops became liable to Government.

	Rs. A. P.
(1) To cash drawn from Treasury	115000 . .
(2) To value of stores received without payment	53998 . 1
(3) To Interest on Capital	8080 1 6
(4) To Pensions and Leave allowances	2221 15 9
	181298 1 4

3. On account of this amount the following payments were made.

(1) Payments into Treasury	11010 12 1
(2) Approved Invoices	142750 6 .
(3) Balance of interest due to Government	7648 2 .
	161417 4 1
Leaving for Increase to Capital	19880 13 3

4. The gross Profits amounted to 42824 15 6
against which charges aggregating 50033 1 6
have been debited, leaving a balance of 7648 2 .
interest due to Government.

5. The Opening and closing balances of the Capital accounts as noted in the following table show an increase to Capital of Rupees 19,880 – 13 – 3.

	Capital on 31st March 1885			Capital on 31st March 1884			Increase			Decrease		
Block	83106	14	1	85677	3	1	..	..	..	2570	5	..
Machinery and Plant	71427	14	7	59581	12	1	11846	2	6	..	..	..
Mechanical Department	16793	1	9	9533	12	11	7259	4	10	..	..	..
Instrument Department	7179	4	10	6950	12	..	228	8	10	..	..	..
Raw Materials	34430	12	2	26609	2	9	7821	9	5	..	..	..
Sales	536	1	..	3142	4	..	..	..	..	2606	3	..
Public Department	8613	..	..	10107	8	..	..	..	..	1494	8	..
Manufacture	..	..	..	400	..	..	..	..	..	400	..	..
	222087	..	6	202002	6	10	27155	9	7	7071	..	..
Deduct Bills payable	1657	..	..	1453	3	8	1657	..	..	1453	3	8
	220430	..	6	200548	3	2	25498	9	7	5617	12	4
	19880	13	3							19880	13	3

6. The results of the working for the year under review as compared with those of three previous years are as follows:-

	1881-82	1882-83	1883-84	1884-85
Outturn	234,963 3 4	189936 10 4	119505 13 7	142322 7 1
Net Profit	.. .. ..	.. .. ..	.. .. ..	.. .. ..
Net loss on interest employed	6883 1 2	2928 3 7	1895 13 4	7648 2 ..

7. The loss in the Mechanical Department was owing principally to the high rates paid for Teak timbers while the estimated rates were charged for and recovered for wood works supplied.

I have only to reiterate the opinion of Captain Baddeley R.E. the late General Superintendent that the works cannot be economically supervised unless it is thought expedient to cancel the restriction contained in G.O. No. 2062 M dated 12th April 1882 by which the Workshop is almost entirely closed to every Department of Government except the P.W.D. and I fear the present suspension of important works in the P.W.D will greatly tell on the Workshops I would therefore submit the expediency of removing the restrictions and keeping the shops open to all Departments of the Service.

I have the honor to be,
Sir,
Your Most Obedt. Servt.

Stk. O'Connell
General Superintendent P.W. Workshops

EXAMINER
No. 4135
29 JUL 1885
ENCLOSURES 2
P. W. ACCOUNTS.

Presidency P. W. Workshops.

From,

THE GENERAL SUPERINTENDENT,
P. W. WORKSHOPS,
Madras,

To

The Examiner of
P W Accounts
Madras.

No. 656 W. R/Rec'd/7454/85.

Dated 28th July 1885.
Despd.
Recd.

No. OF ENCLOSURES. 2

Subject.

Forwards for submission to Government, the Workshops Accts for the official year 1884-85. with certain remarks

7454

S.A.W. 2123/13

Please see W's question of 7-9-85 & my reply there to, & communicate to R.K.

I don't think the head of the record branch should leave it to be inferred that he is unable to judge what papers are necessary for the disposal of a current, & what are not.

Cir
7.9.85.

Please call for the Record Dept.

R.K.

Bv-7883-6A

241 - 6
43 - 5
40 - 2
39 - 10
38 - 3
36 - 10

C. a. w.

2123
14

Herewith
the papers called
for. I am sorry
I was not aware
of them - but they
were not put up
by Records. The
draft order Sent
up will require
modifications.

H.B.

4.9.5.

2123/15

Please put up the papers referred to. It is a fishy story were not put up in the first instance. I, of course, did not know the correct legal steps that should have taken place.

RB

4/9/86

Law

Complete file herewith and I have known that these papers would have been asked for & should have been before last month's meeting and am sorry

a large correspondence that has taken place on the subject & it is hard to think which particular papers will be wanted & to pack up everything would make the file very bulky — S.P. 4-9-85

A.W.

2123

In relation to W
the draft on the annual
Report of the N.W. Workshops,
I felt certain that he
would want to see the
correspondence with the
Messrs Orr & Sons,
on the subject of
giving them a further
trial with a pneumatic
instrument work —

I remember
the papers distinctly
& tried to have them
traced here, but they
are apparently among
our Bufs records at
Madras.

You will see how
that W wants the
papers before passing
the draft order —

Kindly have them
sent up —

Return the heavy
file here — Cs

4/14/85

G.O. 1494-H of 16-6-14
- 3604-H of 9-2-14

The omission to put up
Fo: 1 10-3-85 showed
great carelessness -
Who is responsible?

7-4-85

To W

The record Supt at
Meerut is responsible.
Please see his explanation
of 4-9-85, countalled D.P.
(O. Parsons).

In returning the
file to Madras, it was
my intention to inform
S.A.W. that a highly
paid record clerk such
as we have, ought to be
able to discriminate as
to what papers are necessary
for the historical file
& what are not.

A.

EXAMINER

D.W.

2123/18

Before proceeding to draft orders on the annual accts of the P.W. Works for 1884/85, it seems necessary that some decision should be come to as to whether the orders restricting the working of the Workshops are to be continued in their Entirety, partially suspended, or cancelled. Genl. Supt strongly urges the removal of the restrictions. Please favor me with orders on this point

FB.

26/8/85.

W

Please see Pros. 3.10.3.55 & 5559 W, now obtained from Works.

The Works Bill has been put up the Judges, upon transmitting the Bills to D.W. for special or D.W. pertinently allotted to the matter.

Para 5 of the Progs has been altered in pencil for approval by Superior

I think that S.E. No should now be called on — To report on the proposed withdrawal or modification of the restriction order in regard to work for other Departments & for general public —

There is another point — not now alluded to, but on which information is desirable. In view to the closing of the Instrument Branch of the workshops, work was I gave ago given to hand Wks to test their capabilities & prices, but the result was not satisfactory — see para 5 of G.O. No 160 W of 9th July 84. A further trial of hand Wks work was, if I remember aright, to be made — though I cannot trace the order to this effect. At any rate it would be well to ascertain what mathematical instrument work has since been done by hand Wks & what is said of whether such work has been efficiently & economically done.

OS
27.8.85

2123
19

List of Stores remaining in the L.W. Workshops on the 31st March 1885

ENCLOSURE
413
29 JUL 85
EXAMINER P.W. OFFICE

2123
2D

Description of articles		No or Quantity	Amount		
Acid Hydrochloric	lbs	22½	21	1	6
Alcohol	B	32½	60	15	0
Asbestos packing 1/16	lbs	4-4	6	1	9
" " 1/8	"	3-0	4	5	0
" " 3/16	"	14-0	20	2	0
Augers Screw 1/4	No	12	7	8	0
" " 3/8	"	1	0	10	0
" " 7/8	"	1	0	4	6
" " 1	"	7	7	0	0
" " 1 1/8	"	4	4	10	0
" " 1 1/4	"	10	12	15	6
" " 1 3/8	"	9	13	5	9
" " 1 1/2	"	6	9	13	6
Agate caps, Small brass, mounted	"	34	19	2	0
Beams for Money Scales country 14"	No	1	1	0	0
Bell	"	1	253	0	0
Braces, ratchet with 12 bits	Set	2	82	0	0
Bits for braces carpenters 24 to a set	"	4	8	0	0
Bolts finch brass 4"	No	2	0	5	0
" " " 6"	"	3	"	14	"
			533	11	6

			533	11	6
Brads iron 1"	cwt	1½	"	-	5
" " 1¼"	lbs	2-8	"	11	3
" " 1½"	"	" -6¾	"	1	10
Borax	"	5-3¾	1	8	10
Broom	bundles	8	"	-	8
Burners small for signalling lamp	No.	2	7	"	"
Box wood for barometer	lb	14-4	4	7	3
Bell metal	"	158-4	138	7	6
Brass sheet 1/8"	"	84-10	42	5	"
" " 3/16"	"	103-9¼	51	12	7
" " ¼"	"	54-5¼	27	2	10
" " G. No. 14	"	114-15¾	57	7	10
" " G. No. 16	"	7-8½	3	12	3
" " G No. 20	"	38-10	19	5	"
" Rod ½"	"	4-14	2	11	10
" " 7/16"	"	1-5¼	"	11	11
" " 1"	"	" -14½	"	8	1
" " 1⅛"	"	26-15	15	2	5
" " 1¼"	"	23-5½	13	2	1
" " 1⅜"	"	88-11	49	14	2
" Old	"	35	9	4	9
Bund. W.I. Galvanized 1¼"	No.	1	"	10	"
Bricks fire. Arch	No.	100	6	4	"
Chisels firmer ⅛"	"	11	1	6	"
" " 3/16"	"	10	1	4	10
" " 3/8"	"	10	1	7	4
			990	6	2

			990	6	2
Chisels firmer ½"	No.	1	"	2	5
" " 5/8"	"	6	1	"	"
" " ¾"	"	1	"	2	8
" " 1¼"	"	17	4	12	6
" " 1⅜"	"	7	2	4	2
" " 2"	"	36	18	"	"
Cocks brass ½"	"	7	28	"	"
" " ¾"	"	8	40	"	"
" " 1"	"	7	84	"	"
" " Discharge 1¼"	"	3	30	"	"
" " Stand with flange 1"	"	3	35	10	"
" " " " 1¼"	"	4	67	8	"
" " " " 1½"	"	1	23	2	"
" " " " 1¾"	"	2	56	4	"
" Gunmetal, stop 1"	"	3	9	36	"
Calipers 7"	"	4	8	4	"
Canvass	sqft	23-10	8	9	"
Crucible No 50	No.	53	41	15	4
" No 25	"	48	300	"	"
" Small	"	5	25	"	"
Cloth emery, smooth & rough	"	67	3	7	10
" course	yard	" -2-7½	"	3	1
" waste	lb	12-6	1	11	10
Coal	"	45022	522	9	2
Coke	"	51532	966	3	7
Chimneys large	No.	102	57	6	"
Couplings brass 2½"	Set	4	104	"	"
			3456	9	9

2123/21

				3456	9 9
Chalk	lbs	"	2½	"	7.
Cast iron, old	Lon	33-14-2-7		843	3 3
Casting brass	lb	186	4⅜	116	6 8
Copper sheet 1/16"	"	7	14½	3	15 3
" " 1/8"	"	97	9	48	12 6
" " 3/16"	"	70	8	35	4 "
" " S. № 18.	"	23	7	11	11 6
" Rod ¾"	"	15	12	8	13 9
" " 1"	"	40	6	22	11 4
" " 1¼"	"	9	"	5	1 "
" old	"	136	4	42	9 3
" Strap	"	26	"	13	" "
Clamps iron	No	9.		"	9 "
Color box tin small	"	1.		10	" "
Chlorodyne	B	48.		4	7 9
Dilute sulphuric	oz	8.		2	" "
Electroplated parabolic Reflectors	№	4		240	" "
Elbow square galvanized 1¼"	"	1		1	" "
Firewood	Lon	1-6-1-26		12	9 3
French polish	B.	2⅞		2	1 8
Files ½ round S 6"	№	2		"	6 "
" flat B.S. 16"	"	1		1	8 "
" " B.S. 12"	"	1		1	2 "
" " B.S. 6"	"	1		"	6 "
" " S 10"	"	1		"	12 "
				4885	" 6

				4885	" 6
File flat S E D Smooth 4½"	№	6.		3	" "
" " S E Smooth 4"	"	8		4	" "
" 3 Square D Smooth 12"	"	4.		2	" "
Glass, plate 12" × 10"	"	11		13	12 "
" Magnifying	"	4		8	" "
" Vessels for mixing acid	"	1		2	8 "
" Cutters, steel	"	2		2	5 "
Glaziers, Diamond	"	1.		3	" "
Gouges, turning 1/8"	"	12		1	12 "
" " ¼"	"	10		1	7 4
" " ⅜"	"	5		"	11 8
" " ½"	"	2		"	4 8
" " 5/8"	"	7		1	" 4
" " ¾"	"	8		1	8 "
" " ⅞"	"	10		2	5 6
" " 1"	"	9		2	10 9
" " 1¼"	"	9		3	3 "
" " 1½"	"	12		5	8 "
Gate cast Iron 7½" long 5½" broad	"	8		21	" "
Glass tubes for water Gauge 18" × ⅝"	"	17		17	" "
" " " " 12" × ⅝"	"	7		6	9 "
" Cistern for barometer Standard 3" × 1½"	№	2		5	" "
" Circles 5¾" diameter		6		9	" "
" " 4¾" "	"	29		29	" "
" Pattern for Signalling lamp		113		2	5 8
				5033	15 5

2123/22

				5033	15 5
Glass B pattern for signalling lamps		63	1	15	6
" 6 " " "	lbs	41	5	12	3
" tube with Spirit 6"	"	1	1	"	"
Goglets	"	6		1	"
Glue	lbs	1-14½		10	9
Germansilver sheet ⅛"	"	"-⅞		1	5
" " " 3/16"	"	11-9/16	23	9	7
Green baize	sq ft	23-87	6	14	1
Hammers adze eye	lbs	3	"	8	10 9
" riveting 1 lb	"	1	"	8	"
Hooks bill	"	4	6	"	"
Hydrometer with brass floats		1	50	13	"
Hammer claw		9	14	13	"
Handles brass common 3"	"	6	1	8	"
" " for Cask Chest	"	3	3	12	"
Hinges brass 1¾"	"	2	"	2	8
Hooks and eyes brass 1"	"	21	1	8	6
" " " 1¼"	"	34	3	14	4
" " " 1½"	"	1	"	1	10
" " for catgut 3/16"	"	35	21	14	"
Hide pumps	lbs	46-6	46	6	"
" country	"	2-1¾	1	9	3
" English	"	7-4	14	8	"
Hemp ball	lbs	5	3	12	"
Husks paddy	P	3½	"	3	7
Hose suction leather	sq ft	22	47	12	6

5301 13 7

			5301	13	7
Iron for plane jack 2¼"	lbs	10	6	4	"
Ice Machine	"	1	20	"	"
Iron flat 1¼" × ⅜"	lbs	16-12	1	"	9
" " 1¾" × ⅜"	"	12-"	"	12	"
" " 1¼" × ¼"	"	26-"	1	10	"
" " 3½" × ½"	"	1476	92	4	"
" " 3¼" × ½"	"	1873	117	1	"
" " 5" × 1"	"	445	27	13	"
" " Swedish 1¼" × ¾"	"	2274½	284	5	"
" Round ¼"	"	155	9	11	"
" " ⅜"	"	2205½	137	13	6
" " ½"	"	2017½	126	1	6
" " ¾"	"	1725	107	13	"
" " ⅞"	"	1596	99	12	"
" " 1"	"	2023	126	7	"
" " 1⅛"	"	2311	144	7	"
" " 1¼"	"	8130	508	2	"
" " 2"	"	26	1	10	"
" " ⅜"	"	2285	142	13	"
" " 2¼"	"	129	8	1	"
" " 2½"	"	50	3	2	"
" " Swedish ¾"	"	4½	"	9	"
" " " 3"	"	40.	5	"	"
" Square ⅞"	"	7	"	7	"
" " ¾"	"	202	12	10	"
" " ⅝"	"	3	"	3	"
" " 2"	"	400	25	"	"
" " 2½"	"	85	5	5	"
			7317	14	4

2123/23

			7317	14	4
Iron Square 5"	℔	160	10	0	
" " 1¼"	"	83	5	3	
" " Swedish 1"	"	2071	258	14	
" I 4"×2"×⅜"	"	532	33	4	
" Sheet 4'×2' of 11 ℔ each	"	156	9	12	
" " 9'×2½'×⅜"	"	693	43	5	
" " 12'×2'×3/16"	"	83	5	3	
" " 14'×2½'×¼"	"	4	"	4	
" " of sizes	"	39	2	7	
" " 12'×3'×⅜"	"	741	46	5	
" " 12'×2½'×¼"	"	1403	87	11	
" " 10'×4'×¼"	"	1740	108	12	
" " 6'×2½'×3/16"	"	526	32	14	
" " 6'×2½'×¼"	"	1450	90	10	
" " 12'×2'×½"	"	326	20	6	
" Angle 2½"×2½"×½"	"	660	41	4	
" " 3"×⅜"	"	191	11	15	
" " 3½"×½"	"	370	23	2	
" " 4"×½"	"	936	58	8	
" " 2¼"×⅜"	"	877	54	13	
" Hoop 1"×1/16"	"	4	"	3	4
" Pig English	Tons	1-7-2-0	82	8	
" " Country	"	4-18-2-7	123	3	3
" Old	℔	1609	17	15	3
Keys iron	No	24	2	4	
Knees iron	"	12	36	0	
			8524	8	2

			8524	8	2
Lamp stout pattern	No	3	63	0	
Levelling instrument unfinished	"	1	1031	0	1
Legs, garden seat 6.J pattern	"	2	12	0	
Lenses plain ½" dia 3/4" FL	"	112	87	8	
" " 3/8" " "	"	50	39	1	0
" " 5" " "	"	1	4	0	
" " 6" " "	"	2	9	0	
Locks pad brass P.W.W. 3"	"	2	30	0	
" " " 2½"	"	3	45	0	
" brass. admiral Chubb's 2½"	"	6	30	15	
" " " " 3"	"	6	32	4	
" " " " 3½"	"	2	32	0	
" " " " 2"	"	59	147	8	
" " " 2½"	"	19	52	4	
" " " 3"	"	8	24	0	
" " box 1½"	"	27	21	1	6
" " " 2"	"	14	11	10	8
" " " 2½"	"	64	56	0	
" " " 3"	"	26	65	0	
" " Chubbs patent 2½"	"	7	37	10	
" " " 3"	"	4	22	12	
" " " 3½"	"	1	15	8	
" " draw 3"	"	33	185	10	
" " Chubb 2½"	"	6	32	4	
" " " 3"	"	5	28	2	0
" " desk 3'	"	1	2	3	
" " of an iron pillar letter box without key	"	1	1	0	
			10642	13	5

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24

			10642	13	5
Locks brass unfinished for pillar letter box without key	No	15	45	"	"
Leather belts double 3"	ft	55	61	14	"
Lead pig	lbs	104-11½	6	8	8
" Sheet 1/16"	"	3 —	"	6	"
Measures gallon, imperial	Set.	2	11	4	"
" " glass 10 oz	No	1	2	14	"
" " " 2½" Dia for rain gauge	"	5	16	4	"
Mats packing	"	6	"	7	"
Nails English 1"	lb	"	4	"	11
" " 2½"	"	"	8	"	15
" " 2"	"	2	8	"	7 3
" " ¾"	"	"	1½	"	" 3
Nuts Hexagon ½"	"	31	7	7	13 9
" " ⅝"	"	40	4	10	1 "
" " ⅞"	"	154	4	38	9 "
" " 1"	"	7	2	1	12 6
" " 1⅛"	No	139		34	12 "
" " 1¼"	"	201		50	4 "
" Iron not tapped and incomplete	lb	51		3	3 4
" Square 1"	No	20		1	14 "
Oil cocoanut	B	25½		7	3 11
Oil Lamp	"	18½		4	3 10
Oil Linseed	"	8½		3	13 4
				110	11 5

			110	11	5
Oil of peppermint	oz	2	"	8	"
" of Aniseed	"	2	"	8	"
" Neat foot	B	6	3	"	"
Pens drawing large	No	1	"	7	"
Pincers 6"	"	2	1	10	"
" 10"	"	4	3	4	"
Pinion wire steel of sizes	ft	9-6	13	5	9
" " brass of sizes	"	" 4	"	4	"
Pliers flat ½"	No	4		4	"
Pans copper with chains	"	2	4	"	"
Pump double unfinished	"	3	600	"	"
Pens drawing brass	"	63	7	14	"
Pans brass for scales	"	8	4	"	"
Paper sand rough & smooth	"	2½	"	7	"
Paint Silicate No 2848	lb	2	"	7	2 "
" Red magnetic	"	5-12	1	15	7
" Carsons oake	"	5-8	1	1	10
" Anticorisons Chocolate	"	23 —	2	15	11
" Carson Blue	"	28 —	8	4	"
" enamel	gal	4 21/32	51	3	6
Powder graphite	lb	701-8	175	6	"
" Paris	"	3-3¾	9	11	3
" Emery rough & smooth	"	12-13½	8	2	1
" Red lead	"	4-12	"	2	3
Prisms	No	12	22	8	"
Pitch	lb	12½	"	12	6
Phenyle	B	12	4	12	" "
			11957	8	3

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			11957	8	3
Rack brass ¼"	ft	21-6	34	15	"
" " ⅜"	"	27-1½	64	8	
" " length of 6"	pair	46	74	12	"
" " of pieces	ft	12	19	8	"
Rings divided	"	1	9	"	
Rules folding 2', 2 folds	"	5	11	11	"
" 1', 2 folds	"	6	5	2	"
Rope cotton	lbs	5	2	5	6
Rubber Indian vulcanized ½"	"	26-9½	76	9	8
" " " ⅝"	"	9	26	"	3
" " " ¾"	"	16	46	2	8
" " " 1"	"	145	41	9	3
Rosin	"	5-4½	"	1	3
Saw band 26"	No	1	3	8	"
" " 28"	"	5	20	"	"
" " 30"	"	4	8	15	"
" circular 36"	"	1	5	"	"
" pit 7 ft	"	3	21	"	"
Salters Spring balance to weigh 80 lbs	"	1	9	8	"
Scales brass to weigh small coins	"	1	7	"	"
" " " 100 — ½ Rupee	"	1	20	"	"
" " " 100 — 2 Annas	"	1	20	"	"
Screw jack Halleys Patent 4 Ton	"	3	96	"	"
" " " Small	"	1	10	"	"
Spades	"	4	3	12	"
Shafting Augers	"	15	72	5	2
			134407	"	

			13440	7	"
Stone grinding 5'-10" × 8"	No	1	110	"	"
Steam guage 100 lbs	"	1	30	"	"
Screw Iron ⅜"	lbs	27-3	"	6	10
" " " ½"	"	86-4	2	4	"
" " " ¾"	"	86-4	3	9	6
" " " 1"	"	9-10	"	9	10
" " " 1¼"	"	24	"	1	8
" " " 1½"	"	27-3	2	2	1
" " " 2"	"	13-1	1	"	4
" " " 2¼"	"	2	"	2	6
" " " 3"	"	"	4	"	6
" " " 4"	"	"	5	"	9
" Brass ¼"	"	9-4	"	7	"
" " " ⅜"	"	48	"	2	4
" " " ½"	"	45-11	3	9	4
" " " ⅝"	"	29-10	2	7	9
" " " ¾"	"	25-3	2	5	10
" " " 1"	"	20-5	3	8	1
" " " 1¼"	"	47-8	10	6	10
" " " 1½"	"	11-4	2	7	8
" " " 2"	"	17	"	4	4
" " " 2½"	"	6-6	1	10	"
Spirit bubble 1½"	No	5	2	8	"
" " " 1⅝"	"	8	4	8	"
" " " 1¾"	"	2	1	4	"
" " " 2"	"	44	30	4	"
" " " 2½"	"	79	59	4	"
" " " 2¾"	"	25	20	5	"
			13743	10	10

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			13743	11 10
Spirit bubble 3"	№	79	197	8 "
" " 3¼"	"	22	55	" "
" " 3½"	"	2	5	" "
" " 3¾"	"	7	17	8 "
" " 4"	"	12	30	" "
" " 5"	"	9	24	12 "
" " 5¼"	"	4	11	" "
" " 5½"	"	19	52	4 "
" " 6"	"	17	51	" "
" " 7"	"	40	140	" "
" " 7½"	"	2	7	" "
" " 7¾"	"	4	14	" "
" " 8"	"	70	288	12 "
" " 8½	"	62	255	12 "
" " 9"	"	1	4	8 "
" " Common plain 2"	"	6	2	4 "
" " " " 2½"	"	7	3	1 "
" " " " 3"	"	9	4	8 "
" " " " 3½"	"	8	4	8 "
" " " " 4"	"	7	4	6 "
" " Ground & divided 2½"	"	20	45	" "
" " " " 3"	"	17	40	6 "
" " " " 3½"	"	17	42	8 "
" " " " 4"	"	15	45	" "
" " " " 4½"	"	6	21	" "
" " " " 5"	"	7	28	" "
Spirit glass tube of sizes	"	8	2	8 "
" level glass	"	43	43	" "
Soap windsor	C	20	1	9 "

			15785	4 10
Soap country	Bar	2	" 9	6
Salamonide	lb	5-10	1	6 6
Solder for iron & copper	"	11-15½	3	11 9
Shutters for C. lamp	№	4	40	" "
Steel rod ⅛"	lb	22-2½	5	8 7
" " 5/16"	"	" -15	"	3 9
" " ¼"	"	2-9¾	"	10 5
" " 5/8"	"	9- "		2 4 "
" " 2¼"	"	242-		60 8 "
" Square ¼"	"	2-10¾	"	10 6
" " 3/8"	"	" -7	"	1 9
" " ¾"	"	16- "		4 " "
" Sheet 1/16"	"	13-5½	3	5 4
" Slab 4½" x 4½"	"	173		43 4 "
Spirit Methylated	G	8		7 " "
Skin Schamois	№	½	"	8 "
Screw plate with taps	"	1.		6 7 "
Silver	Sola	18¾		18 12 "
Tape measuring 50 ft without case	Ea	11		36 1 6
" " 66 ft " "	"	25		125 " "
" " 25 ft " "	"	12		38 " "
Turn Screw 18"	№	1		1 2 "
Thermometer	"	1		2 8 "
Tracing glass frame only	"	1.		34 8 "
Tacks iron ¼"	lbs	13-4		4 2 3
" " ½"	"	" -10	"	3 1
" " 3/8"	"	8-1		2 8 4
" " ¾"	"	1-15	"	9 8
			15628	14 9

2123
27

15628 14 9

Jacks iron 1"	℔	1-11	. 5	1
" " 1¼"		1-12	. 8	9
" Copper ¾"	"	5-7	4	1 3
Tanks iron	℔	5	121	14 .
Tubes Indian rubber 2⅜" inside diameter	℔	2	18	1 .
Tin block	℔	2-12½	1	11 .
Thread lamp	"	-6½	.	3 9
Tin pot common	℔	2	.	2 .
Turpentine	℔	2 7/16	1	. .
Tallow	℔	9-6	2	3 11
Tubes copper 1½" × ⅛"	"	135 -	84	6 .
" " 2" × ⅛"	"	62 -	38	12 .
" " 3"	"	130 -	81	4 .
" brass ⅛"	"	-4	.	2 3
" " ¾"	"	-13	.	7 3
" " ¾"	"	3-12½	2	1 11
" " 1"	"	9-11	5	7 2
" " 1⅛"	"	22-14	12	13 10
" " 1¼"	"	18-7¼	10	5 11
" " 1⅜"	"	25-12	14	7 9
" " 1½"	"	30-4¼	17	. 3
" " 1¾"	"	9-4	5	3 3
" " 1⅞"	"	91-12	51	9 9
" " 2"	"	60-6½	33	15 7
" " 2¼"	"	120 -	67	8 .
" " 2½"	"	14-12¾	8	5 1
" " in & outside Frames 1"	"	9 -	6	12 .
" " " 1⅜"	"	1-8	1	2 .
" " " 1½"	"	2-12	2	1 .
			16223	1 6

16223 1 6

Tubes brass in & outside diams 1⅝"	℔	3 -	2	4 "
" " 4" × 1¾"	ft	67-8	245	15 11
" " 12" × 1½"	"	60 -	259	11 .
" " 10" × 1"	"	30 -	56	4 "
" " to slide inside 1¾"	"	40 -	156	4 .
" " " 1½"	"	40 -	173	2 .
" " " 1"	"	35 -	39	6 .
" W. I. Boiler 2¼"	№	9	10	13 3
" " 3"	ft	71¼	46	" 3
" Monty Metal for boiler	№	15	105	" .
" Iron for boiler 6-10" × ⅜"	"	5	25	" .
" W. I. 4"	ft	21-8	10	13 4
Timber Karrai	cft	2-8- "	5	11 4
" teak planks & sidecuttings	cft	4810-1-6	14731	" "
" Red Cedar logs	"	238-4-4	327	11 11
" " planks of sizes	"	32-3-11	48	7 10
" White Cedar logs	"	279-5-4	454	1 7
" " planks of sizes	"	18-11-6	33	2 10
" Peddock wood	"	40-2-9	52	12 10
" Deal planks 1"	Sqft	4012 - "	626	14 .
" Mango planks ¾"	"	3050 - "	555	15 10
" Ebony	℔	66 -	10	8 "
Twine Europe	"	6-11½	4	9 10
Varnish Japan	℔	1 7/16	1	12 9
" Copaul	"	¾	"	14 1
" Japan best black	"	3	4	2 .
			34217	8 1

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				34217	8	1
Vices pin 2½"	№	3		6	3	-
" " 3"	"	2		6	6	-
" Standing large 100 ℔	"	1		19	11	-
Velvet blue	yrs	¾		-	6	-
Weights brass ¼ to 50 Tolas	℔	1		8	-	-
" " ¼ to 10 Tolas	"	1		1	14	-
" " ½ to 5 "	"	2		2	-	-
" C.I. ¼ ℔	№	6		1	8	-
Wax bees	℔	3-8½		2	11	3
Wire steel G № 8	"	20	-	2	4	8
" " ½"	"	-	4	-	-	6
" iron G. № 8	"	79-12		12	7	4
" Copper 1/16"	"	1-1½		-	12	10
" " ⅛"	"	13-12		10	1	4
" " 3/16"	"	9-14½		7	4	1
" " ¼"	"	8-½		5	14	4
" " ⅜"	"	1-5		-	15	5
" " G № 7	"	4-8		3	4	10
" " 3/32"	"	2-		1	7	6
" brass 1/16"	"	3-5¾		2	3	3
" " ⅛"	"	2-6		1	8	4
" " ¼"	"	14-7¾		9	8	-
" " ⅜"	"	12-5		8	1	2
" " G № 13	"	1-15½		1	4	8
" cloth brass perforated 30 holes to an inch	Rep.	30		41	4	-
" Germansilver 1/16"	℔	-5⅜		-	12	7
" " ¼"	"	-8¼		1	3	4
" " ⅜"	"	-	1	-	2	4
" " 7/16"	"	5-3½		12	3	8
				34388	14	6

				34388	14	6
Wire Germansilver G № 22	℔	1⅛		-	4	4
" " № 24	"	1-4		2	14	10
" " № 26	"	-14 25/32		2	2	4
Zinc sheet G № 7	"	68-		15	3	3
" " 7'x3'	"	46-		10	4	10
" block	"	51-5		11	-	1
Rupees				34430	12	2

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Madras
23th July 1885

Asst. Supt.

Asst. O'Connell
Genl. Supt. P.W. Workshops.

2/2.3.
30

Bm Em 3
7464/85

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(a)

General charges Account of the Presidency P.W. Workshops for the year 1884-85.

ENCLOSURE
29 JUL 85
EXAMINER, P.W. ACCOUNTS

To Cost of Permanent Establishment	17754	14	7	By Percentages or outturn to meet the cost of General charges as under:—		
" Cost of Contingent Establishment	...					
			20330	12	11	
" Cost of Contingencies	2575	14	4			
" Cost of fuel, oil & other materials used for Engines &c & repairs to Machinery Tools and Plant	4976	13	-	Mechanical Department	27114	10 8
				Instrument Department	1075	4
" Public Department	163	11	3	Foundry	4976	2 4
" Machinery and Plant				Cash for unclaimed wages &c	14	4 -
" Mechanical Department for repairs to Machinery &c	653	2	10	Sales	...	
" Instrument do do	16	11	1	Public Department	5	14 2
" Block for depreciation at 3%	2570	5	-			
" Machinery and Plant at 4%	2383	4	-			42,384 15 6
" Government for pension & leave allowances in the Permanent Establishment charges.	2221	15	9			
" Labour	288	9	2			
			13,274	8	1	
" Balance carried to Profit & Loss	...		8779	10	6	
Rupees			42,384	15	6	Rupees 42,384 15 6

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Madras 29th July 1885

Signature illegible

H. Mack. O'Connell
General Superintendent P.W. Workshops

(6) Profit and Loss

To Government for Interest on the opening balance as per statement	2,00,549 – 3 – 2		By Balance of Charges General account		8779 10 6
Plus amount due on purchase Dr account	1463 – 3 – 8		" Profits on Estimated Works and Standard rates.		
	2,02,002 – 6 – 10		Mechanical Department . . .		
			Instrument Department . . .		
At 4 per Cent as per G.O. No 527 of 8th June 1869		8080 1 6	Materials . .		
" Foundry		65 15 8			
" Raw Materials		2658 4 4	Balance of Interest due to Govt.		7648 2 –
" Purchase		" . .			
" Public Department		6 3 –			
" Sales		58 7 10			
" Mechanical Department		5610 4 6			
" Instrument Department		48 79			
	Rupees	16427 12 6		Rupees	16427 12 6

2/23/33

Madras 28th July 1880

Hugh. O'Connell
General Superintendent P.W. Workshops

(c)

Her Majesty's Government

To Transfer to Capital Account			By Opening Capital		
To Cash	11,010 12 1		By Cash for cheques drawn	118,000 . .	
" Transfers	142758 6 .		" Transfers	52996 . 1	
" Balance of Interest due to Govt	7618 2 .		" Interest on Capital	8080 1 6	
		161417 4 1	" Pension and Leave allowances	2221 15 9	
		19880 13 3	" Block	. . .	
" Increase to Capital			" Machinery and Plant	. . .	181298 1 4
		Rupees 181298 1 4			Rupees 181298 1 4

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Madras 20th July 1885

Hugh. O'Connell
General Superintendent P.W. Workshops

Clothes
18th July 1886.

Thos. O'Connor
Steward Drummondstad Asylum

Statement 29th Nov. 1886

Statement 29th Nov. 1886

21/23/35

" Amount to Credit 1886 193

" Interest 29th Nov. 1886 3

Balance 29th Nov. 1886 3-

Balance 29th Nov. 1886 3-

Balance due to Contractor on the 1st Oct. 1886

Balance due by Contractor on the 1st Oct. 1886

Deduct Amount of Contractor's Account for Clothes supplied during the Quarter ended 29th Nov. 1886

Deduct Amount of Contractor's Account for Clothes supplied during the Quarter ended 29th Nov. 1886

(c) Block

To Balance on 1st April 1894	85,677 3 1	By Depreciation at 3%	2,570 5 -
" Government		" Balance	83,106 14 1
	Rupees 85,677 3 1		Rupees 85,677 3 1

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Madras 28th July 1895

Hugh. O'Connell
General Superintendent P.W. Workshops

Cleveland
20th July 1886

Thank you for your letter

Thank O. Cannon
Edward Richmond Esqr. Melbourne

Ashore 7h.0m 9.7

Ashore 7h.0m 9.7

21/23/37

" Ballarat

Wind N.W.

Do Ballarat on N. Island 100m

" Melbourne Harbour

Sydney 19.1 Bay Christchurch N.Z.

1899 " 1899 " Melbourne Harbour

100 " 100 "

9380 h.

(5)

Cash.

To Balance			By Government	110 10 12 1	
" Government	110000		" Purchase	46031 1 1	
" Sales	5536 3 3		" Mechanical Department	31068 11 7	
" Profit & Loss for unclaimed wages &c.	14 4 "		" Instrument Department	10942 10 7	
			" Foundry	2080 13 9	
			" Charges General	2033 12 11	
			" Labour	2086 9 3	
	123550 7 3				123550 7 3

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Rupees 123550 7 3 — Rupees 123550 7 3

Madras
20th July 1886

Hugh O'Connell
General Superintendent P.W. Workshops

(h)

Labour.

To Cash	2085 9 3	By Mechanical Department	1320 14 4
		" Instrument Department	291 7 4
		" Foundry	181 10 5
		" Charges General	289 9 2
	2085 9 3		2085 9 3

2/23
39

Rupees 2085 9 3 — Rupees 2085 9 3

Madras
28th July 1885

J. Chatterton

Asst. O'Connell
General Superintendent P.W. Workshops

Mechanical Department

To Balance on 1st April 1884			9,533 12 11	By Sales		910 13 -	
" Cash		31,068 11 7		" Public Department		109,539 8 -	
" Materials		55,979 3 1		" Instrument Department		2,215 2 6	
" Percentages for General charges		27,114 10 8		" Foundry		160 6 3	
" Foundry		11,216 9 11		" Charges General		653 2 10	
" Public Department		34 4 2		" Raw Materials		485 11 11	
" Labour		1,320 14 4	126,731 5 9				113,964 12 6
				" Balance			16,793 1 9
				" Loss		2/23/40	5510 4 5
			Rupees 136,268 2 8				Rupees 136,268 2 8

Madras
20th July 1885

Hugh. O'Connell
General Superintendent P.W. Workshops

(j)

Instrument Department

To. Balance on 1st April 1884		6950 12 -	By Sales	1104 4 -	
" Cash	10942 10 7		" Public Department	28795 1 -	
" Raw Materials	5936 5 11		" Charges General	16 11 1	
" Percentages for Charges General	10754 - 4				29916 - 1
" Mechanical Department	2215 2 6				
" Public Department	- 6 -		" Loss		48 7 9
" Labour	2947 4				
		30193 - 8	" Balance		7179 4 10

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41

Rupees 37143 12 8

Rupees 37143 12 8

Madras
20th July 1886

J. Chamberlain

Hugh. O'Connell
General Superintendent P. W. Workshops

(K.)

Foundry

To Cash		2,080	13	9	By Mechanical Department	11,216	9 11
" Raw Materials		4363	8	10	" Loss		65 15 8
" Mechanical Department		160	6	3			
" Profit on percentages received for Charges General		1149	2	4			
" Labour		181	10	5			
	Rupees	11,282	9	7	Rupees	11,282	9 7

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Madras
20th July 1886

H. Mackenzie Lieut

Hugh O'Connell
General Superintendent P.W. Workshops

(L.) Manufacture

To Balance on 1st April 1884	400 . .	By Balance	
		" Public Department	400 . .
			400 . .

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Rupees 400 . .

Rupees 400 . .

Madras
28th July 1885

J. Thundercliffe

Stuart O'Connell
General Superintendent C. W. Workshops

(M)

Raw Materials

To Balance on 1st April 1884		26609 2 9	By issues to Mech. Department	55979 3 1	
" Purchase	46234 13 5		" Ave M. Department	5986 5 11	
" Public Department	37574 2 4		" Foundry	4363 8 10	
" Mechanical Department	485 11 11		" General	1976 13 .	
" Machinery and Plant . . .	84294 11 8		" Sales	1572 13 1	
			" Public Department	936 2 .	73814 13 11
			" Loss		2658 4 4
			" Balance		34130 12 2
		110903 14 5			110903 14 5

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Madras
20th July 1885

Stuart

Stuart D'Connell
General Superintendent A.M. Workshops

(N) Purchase

To Cash	46031 1 1	46031 1 1	By Balance on 1st April 1888		1453 3 8		
" Balance	1657 . .		" Raw Materials	46234 13 5	46234 13 5		

Rupees 47688 1 1

2/23
45

Rupees 47688 1 1

Madras
21st July 1888

Hugh. O'Connell
General Superintendent P. W. Workshops

Scale

(4)

Salle des Seances

Hall O. Emma
Edward Stanwood & Ph. Mackie

Thos. J. Crewes
Grocer & Provisioner & Wine Merchant

Chelsea 19:12:81

21/23

Chelsea 19:12:81

Chelsea 19:12:81

(9)

Chemises

2 Calico Chemises	11:4:3 £	Pr Calico Chemises	2:9:6 · 1
" Chemises	2:9:6 · 1	" Chemises	11:2:3 £
	19:12:81		19:12:81

Balance sheet

To Block	83106 14 1	By Purchase bills payable	1657 - -
" Machinery and Plant	71427 14 7	" Capital	2,20,430 - 5
" Mechanical Department	16,793 1 9		
" Instrument Department	7,179 4 10		
" Manufacture	- - -		
" Raw Materials	31,430 19 2		
" Sales or Bills receivable	536 1 -		
" Public Department	8,613 - -		
	Rupees 2,22,087 - 5		Rupees 2,22,087 - 5

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Madras
20th January

Lieut. J. Connell
General Superintendent P.W. Works &c

Presidency P. W. Workshops
Revenue Account for the year 1884-85.

1883-84		Expenditure			1883-84		Earnings		
	Per Cent on Gross receipts		Abstract	Per cent on Gross receipts				Abstract	
18,626 4 -	47.80	Establishment	17,918 9 10	42.27	38,760 5 2	By Cartages		42,384 15 6	
2,864 2 3	6.4	Contingencies	2,864 7 6	6.75					
4,724 11 7	12.13	Repairs to Machinery	5646 10 11	13.32					
2,640 10 11	6.00	Depreciation Block	2570 5 .	6.06					
2,383 14 7	5.92	do Machinery	2,383 4 .	5.62					
1,170 7 7	2.06	Pension & Gratuities	2,221 15 9	5.24					
			33,605 5 .	79.26					
8,779 4 11	21.40	Balance net Earnings	8779 10 6	20.74					
			42,384 15 6	100.				42,384 15 6	

2123/50

Madras
12th July 1885

J. Chamberlain

Hugh O'Connell
General Superintendent P. W. Workshops

List of Bills outstanding on the 31st March 1885

Occasion	No. of Bills	Adjustment	Cash	Remarks
1883-84.				
Mr S. Francis Madras	575	2/12/3 5/4 ..	9 5 .	Paid 8th April/85
do	577	....	18 ..	do
M. Valayutha Chetty, Agent and Manager South India Press & Workshops, Madras	678	...	10 ..	Paid 11th April/85
Mr S. Francis Madras	640	...	23 15 .	Paid 8th April/85
T. Vincatrungum Naidu	642	...	1 15 .	" 11th April/85
1884-85				
T. Subrayen Trichy.	144	...	1 3 .	Paid 11th April/85
Sundrayappa Anchetty	145	...	14 10 .	
Exs. Engineer Bellary &c	164	15 ..		
M. Vyapury Madras	187	...	2 10 .	Paid 3rd July/85
Mr S. Francis, Madras	193	...	1 2 .	" 8th April/85
Ramasawmy, Packer	194	...	11 6 .	"
Mr S. Francis, Madras	366	...	1 7 .	Paid 8th April/85
do	367	...	4 3 .	do
Messrs Weir & Co Madras	368	...	53 13 .	
Mr B. H. Rozario Madras	372	...	1 15 .	Paid 11th April/85
Ex Engr in charge Govt Workshops Vaulavchavadi	384	101 14 .		
Lieut R. H. Mahon R.E. Madras	395	...		Adjusted.
District Judge Kistna	484	...	274 15 .	Paid
President Municipal Commissioners, Berhampore	516	117 1 .		
Member Attendant, Madras	554	...	1 7 .	Paid 8th April/85

Rupees 16027 12 6

Sd/ Knight D. Commr

Genl & Superintendent P.W. Madras

Rupees 16027 12 6

Net Revenue Account

To Amount credited to Mr Capitation &c 202002-6-10	By Mr D Earnings 8000 1 6
" Refund account Loss	" Balance of Mr Account due to Government 16118 2 .
	8779 10 6

Madras 2nd July 1885

On whom	No. of Bills	Adjustment	Cash	Remarks
Pahilwan Saib, Madras	557	" " "	3 " "	Paid 18th Inst
Mr S Francis Madras	558	" " "	12 13 "	" 8th "
Ex: Engineer Nilgiri Dte	570	54 2 "		
Mr S. Francis, Madras	575	" " "	21 "	Paid 8th "
do	576	" " "	12 6 "	
Ex: Engineer Trichinopoly Dte	583	740 " "		Adjusted
Consulting Architect to Govt Madras	597	6371 14 "		
do	616	419 9 "		Adjusted
Consulting Engr for Railways	618	14 " "		
Ex: Engr Jubbulpore E.I. Ry	619	1 9 "		
Collector of Chingleput Dt	630	" " "	2 15 "	Paid
Superintendent Travancore Survey	642	" " "	55 " "	do
Ex: Engineer Madura Dte	643	20 3 "		Adjusted
do Southern Dte	644	10 2 "		do
do Godavari Dte	647	17 13 "		do
do No 1 Tank Dte Madura	650	42 7 "		do
Master Attendant Madras	689	7 7 "		do
Commissary of Ordnance	693	18 7 "		do
Collector of Bellary	696	42 5 "		do
Adjutant General Coty	714	" 8 "		do
do	715	126 8 "		do
Master Attendant Madras	741	4 10 "		
Secretary Board of Revenue	743	74 " "		Adjusted
Post Master General Madras	744	18 3 "		do
do	745	21 12 "		do
Collector of Tanjore	753	6 5 "		do
Ex: Engr Ganjam Dte	760	52 3 "		
Secretary to Govt P.W.D. Madras	762	2 6 "		Adjusted
Examiner of P.W. Accounts	765	66 4 "		Paid
Ex: Engineer Nandidrug Dte	772	47 4 "		Adjusted
do No 1 Tank Dte Madura	775	1 10 "	2123/53	
do Tungam Project Dte	776	19 14 "		Adjusted
do Godavari Dte	780	88 1 "		do
Collector of South Canara	792	47 5 "		
Ex: Engr No 2 Tank Dte Madras	802	5 " "		
do B. Project Dte	803	15 3 "		Adjusted
do Godavari Dte	804	3 13 "		do
do Krishna Eastern Dte	806	51 1 "		do
Engr in chief Bellary Kistna Flats	807	1 2 "		do
Ex: Engr Villupuram Ry Survey	808	5 7 "		do
Commissioner of Salt and Abkaree Revenue Madras	811	41 " "		do
Ex: Commissariat Officer, Bangalore	814	4 10 "		do.
Rupees		8,613 " "	536 1 "	

Madras
20th July 1886

Mem. O. Commissariat
General Superintendent

PUBLIC WORKS DEPARTMENT.

A

PROCEEDINGS OF THE MADRAS GOVERNMENT.

2123/53 UNDER date the

READ the following

From the Sup^t P. W. Accts. A. C. No 54 Dated 24th August 85.

Submitted

With his letter above recorded the Examiner P. W. Accts. submits the annual accounts of the Presidency P. W. Workshops for the year 1884-85.

2. The liabilities charged during the year amounted to Rs 1,81,298, while the assets were Rs 1,73,651, showing a net loss on the

the year's transactions of Rs 7,648.

3. The outturn of the year was Rs 1,42,322, against Rs 1,19,506 in the preceding year, and Rs 1,39,937 in 1882-83.

4. The Supdg: Supvr: V Circle, will report on the question of the continuance or otherwise of existing orders on restricting the operations of the workshops in regard to work for other Departments.

and for the general public. These orders have now been in force sufficiently long to enable their full effect to be properly determined. In submitting his report, the Supdg: Supvr will enter fully into the matter and place Govt in possession of the facts of the case as they at present exist.

2123/54

5. In para 5 of G.O. No 360. W. dy 9th Feby 1/6/05 it was remarked that

the

the repair of Govt.
mathematical ins-
truments, as carried
out by Messrs Orr & Sons
of Madras, was not
altogether satisfactory
both as to quality
and price; and in
their report recorded
in G.O. No. 1494. W.d
16th June 1884, the
Committee appointed
to report on the
workshops recom-
-mended the retention
of the mathematical
instrument shops.
The Govt. however
were

were of opinion that
the experiment of
restricting the operation
of the Workshops had
not lasted sufficiently
long to allow of healthy
private competition.
The Supdg. Engineer
will now report for the
information of Govt.
what mathematical
instrument work has
been done since then*
by whom; and whether
it has been efficiently
& economically
carried out.

6. The Govt do not
consider

21/23/55
On a further representation
from members of the Legislature
Govt
Proceedings dated 10th March
1885 No 539 W, directed
that the firm should
be entrusted with the
repair of mathematical
instruments so far as
practicable; and in
para 2 of that order, the
Supdg Engr was directed
to report in due course
on the character of the
work done, as compared
with that done
* by outside agency
entered at the P.W.
workshops - the Supdg
now
Engr will state his
views on that point
in connection with
the report called
for in para 4 of
these Proceedings

considers that any advantage would be gained by adopting the course proposed in para 5 of the Deputy Examiner's report.

7. The attention of the Govt Supt. will be directed to paras 8 & 11 of ~~that foregoing~~ report; and he will note the Deputy Examiner's remarks therein for future guidance.

8. ~~Sanction is accorded to the discontinuance~~ The submission of the returns mentioned by the Deputy Examiner in para 13 of his report may be discontinued.

Cs.
28-8-85

LL.
7-9-85

91

V. Govt

Kindly say if the Examiner's letter and the 4 enclosures are intended to be printed

2123
5a

11/9/85

Govt Supt

PUBLIC WORKS DEPARTMENT

PUBLIC WORKS DEPARTMENT.

No. 2123 25

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 11th Septr/85

2123/57

READ the following

from the Examiner P. W. Accounts (A.E. No. 54 dd/ Augt 24th 1885)

With his letter above recorded, the Examiner P.W. Accounts submits the annual accounts of the Presidency P. W. Workshops for the year 1884/85.

2. The liabilities during the year amounted to Rupees 1,81,298, while the assets were Rs 1,73,650, shewing a net loss on the year's transactions of Rupees 7,648.

3. The outturn of the

year was Rs 1,42,322, against Rs 1,19,506 in the preceding year, and Rs 1,39,937 in 1882/83.

4. The Suptg Engineer V Circle, will report on the question of the continuance or otherwise of existing orders restricting the operations of the Workshops in regard to work for other Departments and for the general public. These orders have now been in force sufficiently long to enable their full effect to be properly determined. In submitting his report, the Suptg Engineer will enter fully into the matter and place Government in possession of the facts as they at present exist.

5. In para 5 of G.O. No 360 W dated 9th February 1884, it was remarked that the repair of Government Mathematical instruments, as carried out by Messrs Orr and Sons of Madras, was not altogether satisfactory as to both quality and price; and in their report recorded in G.O. No 1494 W dated 16th June 1884, the Committee appointed to report on the Workshops recommended the retention of the Mathematical

instruments shops,

1. On a further repre-
sentation from Messrs
Orr & Sons, the Government,
in Proceedings dated 10th
March 1885 No 554 W,
directed that that firm
should be intrusted with
the repair of Mathematical
instruments so far as
practicable; and in para
2 of that order, the
Supty Engineer was
directed to report in
due course on the character
of the work and its
cost, as compared with
that executed at the
S. W. Workshops. The

2123
59

Supty Engineer will now
state his views on that
point, in connection with
the report called for in
para 4 of these Proceedings.

6. The Government
do not consider that any
advantage would be gained
by adopting the course
proposed in para: 5 of the
Deputy Examiner's report.

7. The attention of
the General Superintendent
will be directed to paras
8 & 11 of that report, and
he will note the Deputy
Examiner's remarks thereon
for future guidance.

8. The publication of

the returns mentioned
by the Deputy Examiners
in para 13 of his report
may be discontinued

7.9.86

60

parked

Lapsing v Circle ✓ 23/9
Ext & Vacation ✓

Govt. of Madras 1885

PUBLIC WORKS.

Dated

Rec'd

Encl.

G.O. No. 1885.

(1) Number of pages 120

(2) Date of repair 3-11-87

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works DEPARTMENT

G.O. No. / B.P. No. 2123-W

Press. / Mis.

Dated 11-9-1885

198 .

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2123-W
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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

D—the following papers :—

From D. C. GORDON, Esq., Examiner, Public Works Accounts, to the Secretary to Government, Public Works Department, dated Madras, 24th August 1885, No. 54 W.

I have the honor to forward, for information and orders of Government, letter 656 W., dated 28th July 1885, from the General Superintendent, Public Works rkshops, with the annual accounts of the shops for 1884-85, and note by Rainier, Deputy Examiner.

2. The main points to be noticed are as follows, comparing the years 1883-84 1884-85 :—

	1883-84.	1884-85.
	RS.	RS.
Capital	1,80,582	2,02,002
Financial and general liabilities	37,999	41,397
Outturn	1,19,500	1,42,322
Establishment charges	18,823	20,331
Average centage added to the actual cost of outturn ...	48·3	42·4
Loss	1,886	7,648
Percentage of financial and general liabilities on capital.	21·04	20·49
Percentage of centage charges on actual cost of outturn on capital	21·50	20·98

The value of outturn for this department was Rs. 1,12,431, which includes average of 42·4 per cent. over actuals, paid for by divisions, and, in addition, ernment meets the loss of Rs. 7,648.

3. There is no object in adopting the course proposed in paragraph 5 of the uty Examiner's report, for it would merely transfer the interest charge from a ent to a subsequent year's account, and it is not worth while revising practice for mall a result.

4. The attention of the General Superintendent is required to the points noted in graphs 8 and 11.

5. There is no objection to the discontinuance of the returns mentioned in graph 13.

ENCLOSURE.

From H. O'CONNELL, Esq., General Superintendent, Public Works Workshops, to the Examiner of Public Works Accounts, dated Madras, 28th July 1885, No. 656 W.

I have the honor to forward, for submission to Government, the accounts of the Presidency lic Works Workshops for 1884-85.

2. During the year the workshops became liable to Government—

	Rs.	A.	P.
(1) To cash drawn from treasury	1,18,000	0	0
(2) To value of stores received without payment	52,996	0	1
(3) To interest on capital	8,080	1	6
(4) To pension and leave allowances	2,221	15	9
Total ...	1,81,298	1	4

3. On account of this amount the following payments were made :—

(1) Payments into treasury	11,010	12	1
(2) Approved invoices	1,42,758	6	0
(3) Balance of interest due to Government	7,648	2	0
Total ...	1,61,417	4	1
Leaving for increase to capital	19,880	13	3

4. The gross profits amounted to 42,384 15 6
against which charges aggregating 50,033 1 6

have been debited, leaving a balance of 7,648 2 0
interest due to Government.

5. The opening and closing balances of the capital accounts, as noted in the following table, show an increase to capital of Rs. 19,880-13-3 :—

—	Capital on 31st March 1885.	Capital on 31st March 1884.	Increase.	Decrease.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Block	83,106 14 1	85,677 3 1	...	2,570 5 0
Machinery and plant	71,427 14 7	69,681 12 1	11,846 2 6	...
Mechanical department	16,793 1 9	9,533 12 11	7,259 4 10	...
Instrument do.	7,179 4 10	6,950 12 0	228 8 10	...
Raw materials	34,430 12 2	26,609 2 9	7,821 9 6	...
Sales	536 1 6	3,142 4 0	...	2,606 3 0
Public department	8,613 9 0	10,107 8 0	...	1,494 8 0
Manufacture	...	400 0 0	...	400 0 0
Deduct bills payable ...	2,22,087 0 5	2,02,002 6 10	27,155 9 7	7,071 0 6
	1,657 0 0	1,453 3 8	1,657 0 0	1,453 3 8
	2,20,430 0 5	2,00,549 3 2	25,498 9 7	5,617 12 4
	2,00,549 3 2	...	5,617 12 4	...
	19,880 13 3	...	19,880 13 3	...

6. The results of the working for the year under review as compared with those of three previous years are as follow :—

—	1881-82.	1882-83.	1883-84.	1884-85.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Outturn	2,34,363 3 4	1,39,936 10 4	1,19,595 13 7	1,42,322 7 1
Net profit	...	...	...	...
Net loss or interest unpaid	6,823 1 2	2,928 3 7	1,885 13 4	7,648 2 0

7. The loss in the Mechanical department was owing principally to the high rates paid for teak timber, while the estimated rates were charged for and recovered for wood-works supplied.

I have only to reiterate the opinion of Captain Baddeley, R.E., the late General Superintendent, that the works cannot be economically supervised unless it is thought expedient to cancel the restriction contained in G.O., No. 2064 W., dated 12th April 1882, by which the workshop is almost entirely closed to every department of Government except the Public Works Department, and I fear the present suspension of important works in the Public Works Department will greatly tell on the workshops. I would therefore submit the expediency of removing the restrictions and throwing the shops open to all departments of the service.

2123/2

Order—dated 11th September 1885, No. 2123 W., Public Works.

With his letter above recorded, the Examiner, Public Works Accounts, submits the annual accounts of the Presidency Public Works Workshops for the year 1884-85.

2. The liabilities during the year amounted to Rs. 1,81,298, while the assets were Rs. 1,73,650, showing a net loss on the year's transactions of Rs. 7,648.

3. The outturn of the year was Rs. 1,42,322 against Rs. 1,19,506 in the preceding year and Rs. 1,39,937 in 1882-83.

4. The Superintending Engineer, V Circle, will report on the question of the continuance or otherwise of existing orders restricting the operations of the workshops in regard to work for other departments and for the general public. These orders have now been in force sufficiently long to enable their full effect to be properly determined. In submitting his report, the Superintending Engineer will enter fully into the matter and place Government in possession of the facts as they at present exist.

5. In paragraph 5 of G.O., No. 360 W., dated 9th February 1884, it was remarked that the repair of Government mathematical instruments, as carried out by Messrs. Orr and Sons of Madras, was not altogether satisfactory as to both quality and price ; and in their report recorded in G.O., No. 1494 W., dated 16th June 1884, the committee appointed to report on the workshops recommended the retention of the Mathematical instruments' shops. On a further representation from Messrs. Orr and Sons, the Government, in Proceedings, dated 10th March 1885, No. 559 W., directed that that firm should be intrusted with the repair of mathematical instruments so far as practicable ; and in paragraph 2 of that order the Superintending Engineer was directed to report in due course on the character of the work and its cost, as compared with that executed at the Public Works Workshops. The Superintending Engineer will now state his views on that point, in connection with the report called for in paragraph 4 of these proceedings.

6. The Government do not consider that any advantage would be gained by adopting the course proposed in paragraph 5 of the Deputy Examiner's report.

7. The attention of the General Superintendent will be directed to paragraphs 8 and 11 of that report, and he will note the Deputy Examiner's remarks therein for future guidance.

8. The submission of the returns mentioned by the Deputy Examiner in paragraph 13 of his report may be discontinued.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, V Circle.
„ Examiner, Public Works Accounts.

Exd. J. Henricus.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated September, 11th.

Recd. *Encl.*

G.O., 11th Sept. 1885, No. 2123 W.

SEPTEMBER.

Presidency Public Works Workshops

Orders on accounts of the — for 1884-85.

2123/3

Appendix to Proceedings of Government, No. 2123 W., dated 11th September 1885.

MEMORANDUM ON THE ANNUAL ACCOUNTS OF THE PUBLIC WORKS DEPARTMENT WORKSHOPS FOR 1884-85.

The assets of this concern on the 31st March 1885 were—

	Rs.	A.	P.
Block	83,106	14	1
Every building and its value according to the revaluation of 1883 is recorded in a book; the total works up to the above, less amount of depreciation written off each year; it would be well to show such depreciation as a deduction in the case of each building, so that the aggregate of all buildings will exactly equal the balance of block account.	71,427	14	7
Machinery and plant			
Same remarks as above, except that the book is incomplete and does not work up to the total. But there is evidently nothing in this account which should not be there.			
Outlay on unfinished jobs—			
(1) In the Mechanical department	16,793	1	9
(2) In the Instrument do.	7,179	4	10
According to S.O., No. 62 of 1885, introducing into the Public Works Code paragraphs 2283 A to E; all expenditure of this kind will now be debited in transfer monthly to the division which indented for the work, or at all events the transfer must be settled at the end of the official year, so that there will be no further annual appearance of this kind of asset.	34,430	12	2
Raw materials			
The General Superintendent stated that the balance was verified, and that all component items were found to be of good value.			
Bills recoverable—			
(1) From private parties	536	1	0
(2) From public departments	8,613	0	0

(1) This includes an item of Rs. 16 due from Manager, South Indian Railway Press, Madura, regarding which there is delay, also Rs. 11-6-0 due from Ramasawmy, a packer in the shops, who will be made to pay up.

(2) This includes due from—

	Rs.	A.	P.
Consulting Architect	6,371	4	0
Consulting Engineer for Railways ...	14	0	0
Executive Engineer, Nilgiri division ...	54	2	0
Collector of South Canara	47	5	0
District Judge, Kistna	117	1	0

These should all be collected.

Total, Assets ...	2,22,087	0	5

2. The liabilities on the 31st March 1885 were—

Due to suppliers of stores	1,657	0	0
This is merely the amount due for supplies in the previous month or so; nothing is long outstanding.			
Balance, Capital	2,20,430	0	5
This of course is what the concern was worth on the 31st March 1885, or what Government had in it. On the same date last year the figure was Rs. 2,00,549 (*vide* paragraph 5).			

3. The amount of outturn in 1884-85, stated by the General Superintendent as Rupees 1,42,322-7-1, is thus made up :—

				Rs.	A.	P.
Value of the work done for the Public Works Department ...				1,12,431	1	0
For other departments				26,434	8	0
	Rs.	A.	P.			
Mechanical department	1,10,070	8	0			
Instrument do.	28,795	1	0			
Value of work done for semi-public corporations and private parties				1,484	1	0
Raw materials sold—						
(1) To private parties				300	14	0
(2) By auction				1,271	15	1
Value of weighing-machines transferred to stores (*vide* paragraph 4 of G.O., No. 2798 W., of 8th November 1884) ...				400	0	0
Total ...				1,42,322	7	1
The outturn in 1883-84 was				1,19,505	13	7

4. The value of work done, as stated above, includes, however, the centages which were added, in order to try to avoid loss. Such centages amount for the year to Rs. 42,385, or 42·4 per cent. on the total outturn, or 43·26 per cent. on the actual outlay on jobs. As explained in paragraph 10 of the last audit memorandum, the restricted outturn of the shops costs the Public Works Department heavy charges for all work that is done for it. If, notwithstanding the orders restricting the operations of the shops, much work is still offered from other departments and the public, it may be that private enterprise would be as well protected by charging all such outside work much higher rates than Public Works Department work. It would, of course, cheapen Public Works Department work to serve other departments and the public if it could be done without competing with, or charging as low rates as, Messrs. Massey or Orr, or the like.

The outturn of 1880-81 was—	Rs.
Public Works Department jobs	88,053
Other departments	75,304
Semi-public jobs	22,939
Private	21,298
Raw materials sold	1,294
Total ..	2,98,888

5. The interest charged upon the capital invested in these shops should be calculated on the balance of the balance sheet of the previous year, or on the opening balance of the current year's capital account, namely, Rs. 2,00,549 (*vide* end of paragraph 2). It has been erroneously calculated on the total assets of each year's balance sheet, or as the *profit and loss* account rather clumsily says "on the opening balance as per statement, *plus* amount due for purchases."

6. The office of the General Superintendent of Workshops was last examined on the 5th and 6th September 1884 (*vide* G.O., No. 2798 W., dated 8th November 1884); the examination this year took from the 12th till the 14th August, Mr. Hugh O'Connell, the General Superintendent, and P. Cothundasawmy Pillay, the head clerk, being present.

7. The balance of the General Superintendent's drawing account on the 31st July 1885 was proved correct. The cash book was here and there audited. It is understood that the General Superintendent carefully audits this book every two or three days, and a thorough reaudit for the entire year was considered unnecessary.

8. The cash expenditure of the shops consists of—

1. Payment of permanent staff.
2. Do. of working staff.
3. Do. of extra working staff.
4. Do. of piece-workers.
5. Do. of bills for stores' purchases.
6. Do. of railway freights, steamer freights, &c.
7. Do. of office contingencies.

The laborers and others under 2 and 3 were found to have received regular payment and given good receipts, except the coolies, regarding which there is a nominal muster roll book for each department, and sometimes there is no certificate of payment or individual acknowledgment. It was arranged some time ago to debit a new head of account "Labor" with all payments of labor, that head being credited with the value of all labor employed, and this arrangement works well. There should be a comparison possible; indeed it should be made daily between the nominal muster-rolls of men employed on jobs and the *time sheets* of labor so employed. At present the time sheet omits *hours*, *rate* and *amount*; also the cash book in recording the payment of any labor should quote the nominal muster roll as voucher.

9. Payments for piece-work were audited and found in order, also other payments.

10. The raw materials of the shops are received from the Public Works Stores, from the Arsenal, from the Medical Stores, from the Gun Carriage Factory, from guaranteed railways, and

2123/4

from tradesmen as aforesaid; indents are recorded in books. There is a register of receipts, and a thorough examination of this part of the accounting (receipts of raw materials) found everything in excellent order.

11. As regards the issues, there is a slight imperfection in regard to *sales by auction*, which are not sufficiently particularised. Sales, for instance, in the last year Rs. 1,271-15-1, as per cash book receipts, could not be traced. The journal entry "cash debtor to sales" included all sales; the ledger account "sales" showing its creditor "raw materials" and its debtor "cash" in gross as for "sundries;" the account "raw materials" being also credited by debit to "sales" for "sundries." What is wanted is that when raw materials are sent to auction, a copy of the list to auctioneer should be entered in a book and the original value of each item stated; the amount realised will be then credited to "raw materials" and debited to "sales" when the account sale comes, and the actual proceeds will be credited to "sales" by debit to "cash" on receipt of the proceeds.

12. The journal was checked with the cash abstract and adjustment books, and also with the register of approved invoices. All these books are very neat. The register of workshops, jobs was also checked here and there, also the charges for steam (which are all debited to *general charges*) and the account of foundry.

13. The schedules A to F, referred to in paragraph 33 of the report of the stock committee, printed with G.O., No. 914 W., of 4th April 1881, have been regularly rendered to the Examiner's Public Works Accounts office with the accounts, the object being to prominently notice certain important points referred to in the above paragraph and numbered from I to IV.

Now, however, that the operations of the workshops are restricted to the needs of the Public Works Department (G.O., No. 1494 W., of 16th June 1884), the first point of the four no longer exists.

As regards the second point, the introduction of the heads "*Block*" and "*Machinery*" into the cash account current would apparently keep this prominently under notice.

Part III is effectually investigated at these inspections.

It appears that the order in part IV has been countermanded in paragraph 4 of G.O., No. 1884, of 2nd June 1881.

So that as there is really no longer any need of rendering these returns, if the preparation of the cash account current is altered as above, they may well be discontinued.

14. The office is in good order.

MADRAS,
19th August 1885.

(Signed) H. RAINIER,
Deputy Examiner, Public Works Accounts.

Appendix to Proceedings of Govt. No 2123 W dy 11th September 85.

MEMORANDUM ON THE ANNUAL ACCOUNTS OF THE P.W.D.WORKSHOPS FOR 1884-85.

2123/5

THE ASSETS OF THIS CONCERN ON THE 31ST.MARCH 1885 WERE:-

BLOCK.....RS. 83106-14- 1

EVERY BUILDING AND ITS VALUE ACCORDING TO THE REVALUATION OF 1883 IS RECORDED IN A BOOK; THE TOTAL WORKS UP TO THE ABOVE, LESS AMOUNT OF DEPRECIATION WRITTEN OFF EACH YEAR - IT WOULD BE WELL TO SHOW SUCH DEPRECIATION AS A DEDUCTION IN THE CASE OF EACH BUILDING - SO THAT THE AGGREGATE OF ALL BUILDINGS WILL EXACTLY EQUAL THE BALANCE OF BLOCK ACCOUNT.

MACHINERY AND PLANT.....RS. 71,427-14- 7

SAME REMARKS AS ABOVE, EXCEPT THAT THE BOOK IS INCOMPLETE AND DOES NOT WORK UP TO THE TOTAL. BUT THERE IS EVIDENTLY NOTHING IN THIS ACCOUNT WHICH SHOULD NOT BE THERE.

OUTLAY ON UNFINISHED JOBS:-

(1) IN THE MECHANICAL DEPARTMENT.....RS. 16793- 1- 9
(2) IN THE INSTRUMENT DEPARTMENT.....RS. 7,179- 4-10

ACCORDING TO STANDING ORDER NO.62 OF 1885, INTRODUCING INTO THE P.W.CODE, PARAS 2283 A TO E - ALL EXPENDITURE OF THIS KIND WILL NOW BE DEBITED IN TRANSFER MONTHLY TO THE DIVISION WHICH INDENTED FOR THE WORK, OR AT ALL EVENTS THE TRANSFER MUST BE SETTLED AT THE END OF THE OFFICIAL YEAR, SO THAT THERE WILL BE NO FURTHER ANNUAL APPEARANCE OF THIS KIND OF ASSET.

RAW MATERIALS.....RS. 34430-12- 2

THE GENERAL SUPERINTENDENT STATED THAT THE BALANCE WAS VERIFIED, AND THAT ALL COMPONENT ITEMS WERE FOUND TO BE OF GOOD VALUE.

BILLS RECOVERABLE

(1) FROM PRIVATE PARTIES.....RS. 536- 1- 0
(2) FROM PUBLIC DEPARTMENTS.....RS. 8613- 0- 0

(1)-THIS INCLUDES AN ITEM OF RS.16 DUE FROM

MANAGER S.I.RAILWAY PRESS, MADURA, REGARDING WHICH THERE IS DELAY, ALSO RS.11-6-0 DUE FROM RAMASAWMY, A PACKER IN THE SHOPS, WHO WILL BE MADE TO PAY UP.

(2) THIS INCLUDES DUE FROM:-

CONSULTING ARCHITECT.....RS.6371-4-0
CONSULTING ENGINEER FOR RAILWAYS.....RS. 14-0-0
EXECUTIVE ENGINEER NILGIRI DIVISION.....RS. 54-8-0
COLLECTOR OF SOUTH CANARA...RS. 47-5-0
DISTRICT JUDGE KISTNA.....RS. 117-1-0

THESE SHOULD ALL BE COLLECTED.

TOTAL ASSETS.....RS.223087- 0- 5

2. THE LIABILITIES ON THE 31ST.MARCH 1885 WERE:-

DUE TO SUPPLIERS OF STORES.....RS. 1,657- 0- 0

THIS IS MERELY THE AMOUNT DUE FOR SUPPLIES IN THE PREVIOUS MONTH OR SO, NOTHING IS LONG OUTSTANDING.

BALANCE, CAPITAL.....RS.220430- 0- 5

THIS OF COURSE IS WHAT THE CONCERN WAS WORTH ON THE 31ST.MARCH 1885 - OR WHAT GOVERNMENT HAD IN IT, ON THE SAME DATE LAST YEAR THE FIGURE WAS RS.200,549 (VIDE PARA 5).

3. THE AMOUNT OF OUTTURN IN 1884-85 STATED BY THE GENERAL SUPERINTENDENT AS RS.142,322-7-1 IS THUS MADE UP:-

VALUE OF THE WORK DONE FOR THE P.W.D....RS.112431- 1- 0
FOR OTHER DEPARTMENTS.....RS. 26434- 8- 0
MECHANICAL DEPARTMENT..RS.11007-8-0
INSTRUMENT DEPARTMENT..RS. 2879-1-0

VALUE OF WORK DONE FOR SEMI-PUBLIC CORPORATIONS, AND PRIVATE PARTIES.....RS. 1484- 1- 0

RAW MATERIALS SOLD:-
(1) TO PRIVATE PARTIES.....RS. 300-14- 0
(2) BY AUCTION.....RS. 1271-15- 1

VALUE OF WEIGHING MACHINES TRANSFERRED TO STORES VIDE PARA 4 OF G.O..NO. 2798 W OF 8TH.NOVEMBER 1884.....RS. 400- 0- 0

RS.142,322- 7- 1

THE OUTTURN IN 1883-84 WAS.....RS.119505-13- 7

4. THE VALUE OF WORK DONE, AS STATED ABOVE, INCLUDES HOWEVER THE CENTAGES WHICH WERE ADDED, IN ORDER TO TRY TO AVOID LOSS. SUCH CENTAGES AMOUNT FOR THE YEAR TO RS.42,385. OR 42·4 PER CENT ON THE TOTAL OUTTURN, OR 43·26 PER CENT ON THE ACTUAL OUTLAY ON JOBS. AS EXPLAINED IN PARA 10 OF THE LAST AUDIT MEMORANDUM THE RESTRICTED OUTTURN OF THE SHOPS COSTS THE P.W.DEPARTMENT HEAVY CHARGES FOR ALL WORK THAT IS DONE FOR IT. IF, NOTWITHSTANDING THE ORDERS RESTRICTING THE OPERATIONS OF THE SHOPS, MUCH WORK IS STILL OFFERED FROM OTHER DEPARTMENTS AND THE PUBLIC, IT MAY BE THAT PRIVATE ENTERPRISE WOULD BE AS WELL PROTECTED BY CHARGING ALL SUCH OUTSIDE WORK MUCH HIGHER RATES THAN P.W.DEPARTMENT WORK - IT WOULD OF COURSE CHEAPEN P.W.DEPARTMENT WORK TO SERVE OTHER DEPARTMENTS AND THE PUBLIC IF IT COULD BE DONE WITHOUT COMPETING WITH OR CHARGING AS LOW RATES AS MESSRS.MASSEY, OR ORR, OR THE LIKE.

THE OUTTURN OF 1880-81 WAS:-

P.W.DEPARTMENT JOBS...RS. 88053
OTHER DEPARTMENTS.....RS. 75304
SEMI-PUBLIC JOBS.....RS. 22,939
PRIVATE.....RS. 21298
RAW MATERIALS SOLD....RS. 1294

RS.208888

5. THE INTEREST CHARGED UPON THE CAPITAL INVESTED IN THESE SHOPS SHOULD BE CALCULATED ON THE BALANCE OF THE BALANCE SHEET OF THE PREVIOUS YEAR OR ON THE OPENING BALANCE OF THE CURRENT YEAR'S CAPITAL ACCOUNT NAMELY RS.200,549 (VIDE END OF PARA 2) - IT HAS BEEN ERRONEOUSLY CALCULATED ON THE TOTAL ASSETS OF EACH YEAR'S BALANCE SHEET, OR AS THE PROFIT AND LOSS ACCOUNT RATHER CLUMSILY SAYS 'ON THE OPENING BALANCE AS PER STATEMENT PLUS AMOUNT DUE FOR PURCHASES'.

6. THE OFFICE OF THE GENERAL SUPERINTENDENT OF WORKSHOPS WAS LAST EXAMINED ON THE 5TH. AND 6TH. SEPTEMBER 1884 (VIDE G.O. NO.2798 W. DATED 8TH. NOVEMBER 1884); THE EXAMINATION THIS YEAR TOOK FROM THE 12TH. TILL THE 14TH. AUGUST, MR. HUGH O'CONNELL THE GENERAL SUPERINTENDENT AND P. COTHUNDASAMY PILLAY THE HEAD CLERK, BEING PRESENT.

7. THE BALANCE OF THE GENERAL SUPERINTENDENT'S DRAWING ACCOUNT ON THE 31ST. JULY 1885 WAS PROVED CORRECT. THE CASH BOOK WAS HERE AND THERE AUDITED. IT IS UNDERSTOOD THAT THE GENERAL SUPERINTENDENT CAREFULLY AUDITS THIS BOOK EVERY TWO OR THREE DAYS, AND A THOROUGH RE-AUDIT FOR THE ENTIRE YEAR WAS CONSIDERED UNNECESSARY.

8. THE CASH EXPENDITURE OF THE SHOPS CONSISTS OF:-

1. PAYMENT OF PERMANENT STAFF.
2. ——DO—— WORKING STAFF.
3. ——DO—— EXTRA WORKING STAFF.
4. ——DO—— PIECE WORKERS.
5. ——DO—— BILLS FOR STORES PURCHASES.
6. ——DO—— RAILWAY FREIGHTS, STEAMER FREIGHTS ETC.
7. ——DO—— OFFICE CONTINGENCIES.

THE LABORERS AND OTHERS UNDER 2 AND 3 WERE FOUND TO HAVE RECEIVED REGULAR PAYMENT AND GIVEN GOOD RECEIPTS, EXCEPT THE COOLIES, REGARDING WHICH THERE IS A NOMINAL MUSTER ROLL BOOK FOR EACH DEPARTMENT AND SOMETIMES THERE IS NO CERTIFICATE OF PAYMENT OR INDIVIDUAL ACKNOWLEDGMENT. IT WAS ARRANGED SOME TIME AGO TO DEBIT A NEW HEAD OF ACCOUNT 'LABOR' WITH ALL PAYMENTS OF LABOR, THAT HEAD BEING CREDITED WITH THE VALUE OF ALL LABOR EMPLOYED, AND THIS ARRANGEMENT WORKS WELL. THERE SHOULD BE A COMPARISON POSSIBLE-INDEED IT SHOULD

Exp 3

BE MADE-DAILY-BETWEEN THE NOMINAL MUSTER ROLLS OF MEN EMPLOYED ON JOBS AND THE TIME SHEETS OF LABOR SO EMPLOYED - AT PRESENT THE TIME SHEET OMITS HOURS, RATE AND AMOUNT - ALSO THE CASH BOOK IN RECORDING THE PAYMENT OF ANY LABOR SHOULD QUOTE THE NOMINAL MUSTER ROLL AS VOUCHER. 2123/7

9. PAYMENTS FOR PIECEWORK WERE AUDITED AND FOUND IN ORDER, ALSO OTHER PAYMENTS.

10. THE RAW MATERIALS OF THE SHOPS ARE RECEIVED FROM THE P.W. STORES, FROM THE ARSENAL, FROM THE MEDICAL STORES, FROM THE GUN CARRIAGE FACTORY, FROM GUARANTEED RAILWAYS AND FROM TRADESMEN AS AFORESAID; INDENTS ARE RECORDED IN BOOKS - THERE IS A REGISTER OF RECEIPTS, AND A THOROUGH EXAMINATION OF THIS PART OF THE ACCOUNTING (RECEIPTS OF RAW MATERIALS) FOUND EVERY THING IN EXCELLENT ORDER.

11. AS REGARDS THE ISSUES THERE IS A SLIGHT IMPERFECTION IN REGARD TO SALES BY AUCTION, WHICH ARE NOT SUFFICIENTLY PARTICULARISED. SALES FOR INSTANCE IN THE LAST YEAR RS.1271-15-1 AS PER CASH BOOK RECEIPTS, COULD NOT BE TRACED. THE JOURNAL ENTRY 'CASH DEBTOR TO SALES' INCLUDED ALL SALES. THE LEDGER ACCOUNT 'SALES' SHEWING ITS CREDITOR 'RAW MATERIALS' AND ITS DEBTOR 'CASH' IN GROSS AS FOR 'SUNDRIES'. THE ACCOUNT 'RAW MATERIALS' BEING ALSO CREDITED BY DEBIT TO 'SALES' FOR 'SUNDRIES'. WHAT IS WANTED IS THAT WHEN RAW MATERIALS ARE SENT TO AUCTION, A COPY OF THE LIST TO AUCTIONEER, SHOULD BE ENTERED IN A BOOK AND THE ORIGINAL VALUE OF EACH ITEM STATED; THE AMOUNT REALISED WILL BE THEN CREDITED TO 'RAW

MATERIALS' AND DEBITED TO 'SALES' WHEN THE ACCOUNT SALE COMES, AND THE ACTUAL PROCEEDS WILL BE CREDITED TO 'SALES' BY DEBIT TO 'CASH', ON RECEIPT OF THE PROCEEDS.

12. THE JOURNAL WAS CHECKED WITH THE CASH ABSTRACT AND ADJUSTMENT BOOKS - AND ALSO WITH THE REGISTER OF APPROVED INVOICES. ALL THESE BOOKS ARE VERY NEAT. THE REGISTER OF WORKSHOPS JOBS WAS ALSO CHECKED HERE AND THERE, ALSO THE CHARGES FOR STEAM WHICH ARE ALL DEBITED TO GENERAL CHARGES; AND THE ACCOUNT OF FOUNDRY.

13. THE SCHEDULES A TO F REFERRED TO IN PARA 33 OF THE REPORT OF THE STOCK COMMITTEE PRINTED WITH G.O. NO.514 W. OF 4TH.APRIL 1881 HAVE BEEN REGULARLY RENDERED TO THE EXAMINER'S P.W.ACCOUNTS OFFICE WITH THE ACCOUNTS, THE OBJECT BEING TO PROMINENTLY NOTICE CERTAIN IMPORTANT POINTS REFERRED TO IN THE ABOVE PARA AND NUMBERED FROM I TO IV.

NOW HOWEVER THAT THE OPERATIONS OF THE WORKSHOPS ARE RESTRICTED TO THE NEEDS OF THE P.W.D. G.O. NO.1494 W. OF 16TH.JUNE 1884, THE FIRST POINT OF THE FOUR, NO LONGER EXISTS.

AS REGARDS THE SECOND POINT, THE INTRODUCTION OF THE HEADS 'BLOCK' AND 'MACHINERY' INTO THE CASH ACCOUNT CURRENT WOULD APPARENTLY KEEP THIS PROMINENTLY UNDER NOTICE.

PART III IS EFFECTUALLY INVESTIGATED AT THESE INSPECTIONS.

IT APPEARS THAT THE ORDER IN PART IV HAS BEEN COUNTER-MANDED IN PARA 6 OF G.O. NO.1884 OF 2ND.JUNE 1881.

SO THAT AS THERE IS REALLY NO LONGER ANY NEED OR RENDERING

524

THESE RETURNS, IF THE PREPARATION OF THE CASH ACCOUNT CURRENT IS ALTERED AS ABOVE, THEY MAY WELL BE DISCONTINUED.

14. THE OFFICE IS IN GOOD ORDER.

2123/8.

H Rainier

MADRAS
19TH.AUGUST 1885.

DY.EXAMINER P.W.ACCOUNTS.

29/2415 Jot 22/9

[Form No. 1.]

N.B.—In any future communication on this subject, the number and date of this letter should be quoted.

No. 54 W. 2123/9

From

THE EXAMINER,
PUBLIC WORKS ACCOUNTS,
MADRAS.

To

The Secretary to Government,
Public Works Department.

Madras, 24th August 1885.

Sir,

I have the honor to forward for information and orders of Government letter No.656 W. dated 28th. July 1885 from the General Superintendent P. W. Workshops, with the Annual Accounts of the Shops for 1884-85, and note by Mr. Rainier Dy. Examiner.

2. The main points to be noticed are as follows, comparing the years 1883-84 and 1884-85.

	1883-84	1884-85.
Capital.....Rs.	1,80,582	2,02,003
Financial & General Liabilities. Rs.	37,999	41,397
Outturn.....Rs.	1,19,500	1,42,322
Establishment charges.....Rs.	18,823	20,331
Average centage added to the actual cost of outturn.....	48·3	42·4
Loss.....Rs.	1,888	7,648
Percentage of Financial and General Liabilities on Capital.....	21·04	20·49
Percentage of centage charges on actual cost of outturn on Capital.....	21·50	20·98

The value of outturn for this Department was Rs. 1,13,431, which includes an average of 43·4 per cent over actuals,

paid for by Divisions, and, in addition, Government meets the loss of Rs.7,648.

3. There is no object in the adopting the course proposed in para 5 of the Dy. Examiner's report, for it would merely tranfer the Interest charge from a current to a subsequent year's Account, and it is not worthwhile revising practice for so small a result.

4. The attention of the General Superintendent is required to the points noted in paras 8 and 11.

5. There is no objection to the discontinuance of the returns mentioned in para 13.

I have the honor to be,

Sir,

Your Most Obedient Servant.

D.C. Evans

Examiner P.W. Accounts.

2123/10

No 1574 C. 16.9.81.
G.C. No 2503 W. 6.9.83
" " 2054 W. 30.8.80
" " 711 W. 18.3.82.
No 2218. 10.6.82.
P.C. No 1763 W. 11.7.82.
G.C. No 2664 W. 12.8.82
" " 2488 W. 25.9.82
" " 360 W. 9.2.80
" " 1966 W. 11.8.84
P.C. No 25-27 W. 14.10.84
G.C. No 2798 W. 8.11.84
" " 1384 W. 2.6.81
" " 914 W. 4.4.81.

(1) Rch 7454

From,

The Examiner P.W. Accounts,

Madras.

To,

The Secretary to Government,

P.W. Department.

No. 54 W

Dated 24th August 1885.

Recd. 25 " ——

Enclos. 4

Annual Accounts of the P.W. Stores for 1884-85. Forwarded and a Note by the Dy. Examiner for the orders of Govt.

P.W. 1378

PRESIDENCY PUBLIC WORKS WORKSHOPS,

Madras, 28th July 1885.

No. 656 W.

From

THE GENERAL SUPERINTENDENT,

PUBLIC WORKS WORKSHOPS,

To

THE Examiner of

P. W. Accounts

Madras

Enclosures.

SIR,

I have the honor to forward for submission to Government the accounts of the Presidency Public Works Workshops for 1884-85.

2. During the year the Workshops became liable to Government.

	Rs. A. P.
(1) To cash drawn from Treasury	115000 . .
(2) To value of stores received without payment	53998 . 1
(3) To Interest on Capital	8080 1 6
(4) To Pensions and Leave allowances	2221 15 9
	181298 1 4

3. On account of this amount the following payments were made.

(1) Payments into Treasury	11010 12 1
(2) Approved Invoices	142750 6 .
(3) Balance of interest due to Government	7648 2 .
	161417 4 1
Leaving for Increase to Capital	19880 13 3

4. The gross Profits amounted to 42824 15 6
against which charges aggregating 50033 1 6
have been debited, leaving a balance of 7648 2 .
interest due to Government.

5. The Opening and closing balances of the Capital accounts as noted in the following table show an increase to Capital of Rupees 19,880 – 13 – 3.

	Capital on 31st March 1885			Capital on 31st March 1884			Increase			Decrease		
Block	83106	14	1	85677	3	1	..	..	..	2570	5	..
Machinery and Plant	71427	14	7	59581	12	1	11846	2	6	..	..	..
Mechanical Department	16793	1	9	9533	12	11	7259	4	10	..	..	..
Instrument Department	7179	4	10	6950	12	..	228	8	10	..	..	..
Raw Materials	34430	12	2	26609	2	9	7821	9	5	..	..	..
Sales	536	1	..	3142	4	..	..	..	..	2606	3	..
Public Department	8613	..	..	10107	8	..	..	..	..	1494	8	..
Manufacture	..	..	..	400	..	..	..	..	..	400	..	..
	222087	..	6	202002	6	10	27155	9	7	7071	..	..
Deduct Bills payable	1657	..	..	1453	3	8	1657	..	..	1453	3	8
	220430	..	6	200548	3	2	25498	9	7	5617	12	4
	19880	13	3							19880	13	3

6. The results of the working for the year under review as compared with those of three previous years are as follows:-

	1881-82	1882-83	1883-84	1884-85
Outturn	234,963 3 4	189936 10 4	119505 13 7	142322 7 1
Net Profit	.. .. ..	.. .. ..	.. .. ..	.. .. ..
Net loss on interest employed	6883 1 2	2928 3 7	1895 13 4	7648 2 ..

7. The loss in the Mechanical Department was owing principally to the high rates paid for Teak timbers while the estimated rates were charged for and recovered for wood works supplied.

I have only to reiterate the opinion of Captain Baddeley R.E. the late General Superintendent that the works cannot be economically supervised unless it is thought expedient to cancel the restriction contained in G.O. No. 2062 M dated 12th April 1882 by which the Workshop is almost entirely closed to every Department of Government except the P.W.D. and I fear the present suspension of important works in the P.W.D will greatly tell on the Workshops I would therefore submit the expediency of removing the restrictions and keeping the shops open to all Departments of the Service.

I have the honor to be,
Sir,
Your Most Obedt. Servt.

Stk. O'Connell
General Superintendent P.W. Workshops

EXAMINER
No. 4135
29 JUL 1885
ENCLOSURES 2
P. W. ACCOUNTS.

Presidency P. W. Workshops.

From,

THE GENERAL SUPERINTENDENT,
P. W. WORKSHOPS,
Madras,

To

The Examiner of
P W Accounts
Madras.

No. 656 W. R/Rec'd/7454/85.

Dated 28th July 1885.
Despd.
Recd.

No. OF ENCLOSURES. 2

Subject.

Forwards for submission to Government, the Workshops Accts for the official year 1884-85. with certain remarks

7454

S.A.W. 2123/13

Please see W's question of 7-9-85 & my reply there to, & communicate to R.K.

I don't think the head of the record branch should leave it to be inferred that he is unable to judge what papers are necessary for the disposal of a current, & what are not.

Cir
7.9.85.

Please call for the Record Dept.

R.K.

Bv-7883-6A

241 - 6
43 - 5
40 - 2
39 - 10
38 - 3
36 - 10

C. a. w.

2123
14

Herewith
the papers called
for. I am sorry
I was not aware
of them - but they
were not put up
by Records. The
draft order Sent
up will require
modifications.

H.B.

4.9.5.

2123/15

Please put up the papers referred to. It is a fishy story were not put up in the first instance. I, of course, did not know the correct legal position had taken place.

RB

4/9/86

Law

Complete file herewith and I have known that these papers would have been asked for & would have form the beginning before but I thought it was only a short time and would

a large correspondence that has taken place on the subject & it is hard to think which particular papers will be wanted & to pack up everything would make the file very bulky — S.P. 4-9-85

A.W.

2123

In relation to W
the draft on the annual
Report of the N.W. Workshops,
I felt certain that he
would want to see the
correspondence with the
Messrs Orr & Sons,
on the subject of
giving them a further
trial with a pneumatic
instrument work —

I remember
the papers distinctly
& tried to have them
traced here, but they
are apparently among
our Bufs records at
Madras.

You will see how
that W wants the
papers before passing
the draft order —

Kindly have them
sent up —

Return the heavy
file here — Cs

4/14/85

G.O. 1494-H of 16-6-14
- 3604-H of 9-2-14

The omission to put up
Fo: 1 10-3-85 showed
great carelessness -
Who is responsible?

7-4-85

To W

The record Supt at
Meerut is responsible.
Please see his explanation
of 4-9-85, countalled D.P.
(O. Parsons).

In returning the
file to Madras, it was
my intention to inform
S.A.W. that a highly
paid record clerk such
as we have, ought to be
able to discriminate as
to what papers are necessary
for the historical file
& what are not.

A.

EXAMINER

D.W.

2123/18

Before proceeding to draft orders on the annual accts of the P.W. Works for 1884/85, it seems necessary that some decision should be come to as to whether the orders restricting the working of the Workshops are to be continued in their Entirety, partially suspended, or cancelled. Genl. Supt strongly urges the removal of the restrictions. Please favor me with orders on this point

FB.

26/8/85.

W

Please see Pros. 3.10.3.55 & 5559 W, now obtained from Works.

The Works Bill has been put up the Judges, upon transmitting the Bills to D.W. for special or D.W. pertinently allotted to the matter.

Para 5 of the Progs has been altered in pencil for approval by Superior

I think that S.E. No should now be called on — To report on the proposed withdrawal or modification of the restriction order in regard to work for other Departments & for general public —

There is another point — not now alluded to, but on which information is desirable. In view to the closing of the Instrument Branch of the workshops, work was I gave ago given to hand Wks to test their capabilities & prices, but the result was not satisfactory — see para 5 of G.O. No 160 W of 9th July 84. A further trial of hand Wks work was, if I remember aright, to be made — though I cannot trace the order to this effect. At any rate it would be well to ascertain what mathematical instrument work has since been done by hand Wks & what is said of whether such work has been efficiently & economically done.

OS
27.8.85

2123
19

List of Stores remaining in the L.W. Workshops on the 31st March 1885

ENCLOSURE
413
29 JUL 85
EXAMINER P.W. OFFICE

2123
2D

Description of articles		No or Quantity	Amount		
Acid Hydrochloric	lbs	22½	21	1	6
Alcohol	B	32½	60	15	0
Asbestos packing 1/16	lbs	4-4	6	1	9
" " 1/8	"	3-0	4	5	0
" " 3/16	"	14-0	20	2	0
Augers Screw 1/4	No	12	7	8	0
" " 3/8	"	1	0	10	0
" " 7/8	"	1	0	4	6
" " 1	"	7	7	0	0
" " 1 1/8	"	4	4	10	0
" " 1 1/4	"	10	12	15	6
" " 1 3/8	"	9	13	5	9
" " 1 1/2	"	6	9	13	6
Agate caps, Small brass, mounted	"	34	19	2	0
Beams for Money Scales country 14"	No	1	1	0	0
Bell	"	1	253	0	0
Braces, ratchet with 12 bits	Set	2	82	0	0
Bits for braces carpenters 24 to a set	"	4	8	0	0
Bolts finch brass 4"	No	2	0	5	0
" " " 6"	"	3	"	14	"
			533	11	6

			533	11	6
Brads iron 1"	cwt	1½	"	-	5
" " 1¼"	lbs	2-8	"	11	3
" " 1½"	"	" -6¾	"	1	10
Borax	"	5-3¾	1	8	10
Broom	bundles	8	"	-	8
Burners small for signalling lamp	No.	2	7	"	"
Box wood for barometer	lb	14-4	4	7	3
Bell metal	"	158-4	138	7	6
Brass sheet 1/8"	"	84-10	42	5	"
" " 3/16"	"	103-9¼	51	12	7
" " ¼"	"	54-5¼	27	2	10
" " G. No. 14	"	114-15¾	57	7	10
" " G. No. 16	"	7-8½	3	12	3
" " G No. 20	"	38-10	19	5	"
" Rod ½"	"	4-14	2	11	10
" " 7/16"	"	1-5¼	"	11	11
" " 1"	"	" -14½	"	8	1
" " 1⅛"	"	26-15	15	2	5
" " 1¼"	"	23-5½	13	2	1
" " 1⅜"	"	88-11	49	14	2
" Old	"	35	9	4	9
Bund. W.I. Galvanized 1¼"	No.	1	"	10	"
Bricks fire. Arch	No.	100	6	4	"
Chisels firmer ⅛"	"	11	1	6	"
" " 3/16"	"	10	1	4	10
" " 3/8"	"	10	1	7	4
			990	6	2

			990	6	2
Chisels firmer ½"	No.	1	"	2	5
" " 5/8"	"	6	1	"	"
" " ¾"	"	1	"	2	8
" " 1¼"	"	17	4	12	6
" " 1⅜"	"	7	2	4	2
" " 2"	"	36	18	"	"
Cocks brass ½"	"	7	28	"	"
" " ¾"	"	8	40	"	"
" " 1"	"	7	84	"	"
" " Discharge 1¼"	"	3	30	"	"
" " Stand with flange 1"	"	3	35	10	"
" " " " 1¼"	"	4	67	8	"
" " " " 1½"	"	1	23	2	"
" " " " 1¾"	"	2	56	4	"
" Gunmetal, stop 1"	"	3	9	36	"
Calipers 7"	"	4	8	4	"
Canvass	sqft	23-10	8	9	"
Crucible No 50	No.	53	41	15	4
" No 25	"	48	300	"	"
" Small	"	5	25	"	"
Cloth emery, smooth & rough	"	67	3	7	10
" course	yard	" -2-7½	"	3	1
" waste	lb	12-6	1	11	10
Coal	"	45022	522	9	2
Coke	"	51532	966	3	7
Chimneys large	No.	102	57	6	"
Couplings brass 2½"	Set	4	104	"	"
			3456	9	9

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				3456	9 9
Chalk	lbs	"	2½	"	7.
Cast iron, old	Lon	33-14-2-7		843	3 3
Casting brass	lb	186	4⅜	116	6 8
Copper sheet 1/16"	"	7	14½	3	15 3
" " 1/8"	"	97	9	48	12 6
" " 3/16"	"	70	8	35	4 "
" " S. № 18.	"	23	7	11	11 6
" Rod ¾"	"	15	12	8	13 9
" " 1"	"	40	6	22	11 4
" " 1¼"	"	9	"	5	1 "
" old	"	136	4	42	9 3
" Strap	"	26	"	13	" "
Clamps iron	No	9.		"	9 "
Color box tin small	"	1.		10	" "
Chlorodyne	B	48.		4	7 9
Dilute sulphuric	oz	8.		2	" "
Electroplated parabolic Reflectors	№	4		240	" "
Elbow square galvanized 1¼"	"	1		1	" "
Firewood	Lon	1-6-1-26		12	9 3
French polish	B.	2⅞		2	1 8
Files ½ round S 6"	№	2		"	6 "
" flat B.S. 16"	"	1		1	8 "
" " B.S. 12"	"	1		1	2 "
" " B.S. 6"	"	1		"	6 "
" " S 10"	"	1		"	12 "
				4885	" 6

				4885	" 6
File flat S E D Smooth 4½"	№	6.		3	" "
" " S E Smooth 4"	"	8		4	" "
" 3 Square D Smooth 12"	"	4.		2	" "
Glass, plate 12" × 10"	"	11		13	12 "
" Magnifying	"	4		8	" "
" Vessels for mixing acid	"	1		2	8 "
" Cutters, steel	"	2		2	5 "
Glaziers, Diamond	"	1.		3	" "
Gouges, turning 1/8"	"	12		1	12 "
" " ¼"	"	10		1	7 4
" " ⅜"	"	5		"	11 8
" " ½"	"	2		"	4 8
" " 5/8"	"	7		1	" 4
" " ¾"	"	8		1	8 "
" " ⅞"	"	10		2	5 6
" " 1"	"	9		2	10 9
" " 1¼"	"	9		3	3 "
" " 1½"	"	12		5	8 "
Gate cast Iron 7½" long 5½" broad	"	8		21	" "
Glass tubes for water Gauge 18" × ⅝"	"	17		17	" "
" " " " 12" × ⅝"	"	7		6	9 "
" Cistern for barometer Standard 3" × 1½"	№	2		5	" "
" Circles 5¾" diameter		6		9	" "
" " 4¾" "	"	29		29	" "
" Pattern for Signalling lamp		113		2	5 8
				5033	15 5

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				5033	15 5
Glass B pattern for signalling lamps		63	1	15	6
" 6 " " "	lbs	41	5	12	3
" tube with Spirit 6"	"	1	1	"	"
Goglets	"	6		1	"
Glue	lbs	1-14½		10	9
Germansilver sheet ⅛"	"	"-⅞		1	5
" " " 3/16"	"	11-9/16	23	9	7
Green baize	sq ft	23-87	6	14	1
Hammers adze eye	lbs	3	"	8	10 9
" riveting 1 lb	"	1	"	8	"
Hooks bill	"	4	6	"	"
Hydrometer with brass floats		1	50	13	"
Hammer claw		9	14	13	"
Handles brass common 3"	"	6	1	8	"
" " for Cask Chest	"	3	3	12	"
Hinges brass 1¾"	"	2	"	2	8
Hooks and eyes brass 1"	"	21	1	8	6
" " " 1¼"	"	34	3	14	4
" " " 1½"	"	1	"	1	10
" " for catgut 3/16"	"	35	21	14	"
Hide pumps	lbs	46-6	46	6	"
" country	"	2-1¾	1	9	3
" English	"	7-4	14	8	"
Hemp ball	lbs	5	3	12	"
Husks paddy	P	3½	"	3	7
Hose suction leather	sq ft	22	47	12	6

5301 13 7

			5301	13	7
Iron for plane jack 2¼"	lbs	10	6	4	"
Ice Machine	"	1	20	"	"
Iron flat 1¼" × ⅜"	lbs	16-12	1	"	9
" " 1¾" × ⅜"	"	12-"	"	12	"
" " 1¼" × ¼"	"	26-"	1	10	"
" " 3½" × ½"	"	1476	92	4	"
" " 3¼" × ½"	"	1873	117	1	"
" " 5" × 1"	"	445	27	13	"
" " Swedish 1¼" × ¾"	"	2274½	284	5	"
" Round ¼"	"	155	9	11	"
" " ⅜"	"	2205½	137	13	6
" " ½"	"	2017½	126	1	6
" " ¾"	"	1725	107	13	"
" " ⅞"	"	1596	99	12	"
" " 1"	"	2023	126	7	"
" " 1⅛"	"	2311	144	7	"
" " 1¼"	"	8130	508	2	"
" " 2"	"	26	1	10	"
" " ⅜"	"	2285	142	13	"
" " 2¼"	"	129	8	1	"
" " 2½"	"	50	3	2	"
" " Swedish ¾"	"	4½	"	9	"
" " " 3"	"	40.	5	"	"
" Square ⅞"	"	7	"	7	"
" " ¾"	"	202	12	10	"
" " ⅝"	"	3	"	3	"
" " 2"	"	400	25	"	"
" " 2½"	"	85	5	5	"
			7317	14	4

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			7317	14	4
Iron Square 5"	℔	160	10	0	
" " 1¼"	"	83	5	3	
" " Swedish 1"	"	2071	258	14	
" I 4"×2"×⅜"	"	532	33	4	
" Sheet 4'×2' of 11 ℔ each	"	156	9	12	
" " 9'×2½'×⅜"	"	693	43	5	
" " 12'×2'×3/16"	"	83	5	3	
" " 14'×2½'×¼"	"	4	"	4	
" " of sizes	"	39	2	7	
" " 12'×3'×⅜"	"	741	46	5	
" " 12'×2½'×¼"	"	1403	87	11	
" " 10'×4'×¼"	"	1740	108	12	
" " 6'×2½'×3/16"	"	526	32	14	
" " 6'×2½'×¼"	"	1450	90	10	
" " 12'×2'×½"	"	326	20	6	
" Angle 2½"×2½"×½"	"	660	41	4	
" " 3"×⅜"	"	191	11	15	
" " 3½"×½"	"	370	23	2	
" " 4"×½"	"	936	58	8	
" " 2¼"×⅜"	"	877	54	13	
" Hoop 1"×1/16"	"	4	"	3	4
" Pig English	Tons	1-7-2-0	82	8	
" " Country	"	4-18-2-7	123	3	3
" Old	℔	1609	17	15	3
Keys iron	No	24	2	4	
Knees iron	"	12	36	0	
			8524	8	2

			8524	8	2
Lamp stout pattern	No	3	63	0	
Levelling instrument unfinished	"	1	1031	0	1
Legs, garden seat 6.J pattern	"	2	12	0	
Lenses plain ½" dia 3/4" FL	"	112	87	8	
" " 3/8" " "	"	50	39	1	0
" " 5" " "	"	1	4	0	
" " 6" " "	"	2	9	0	
Locks pad brass P.W.W. 3"	"	2	30	0	
" " " 2½"	"	3	45	0	
" brass. admiral Chubb's 2½"	"	6	30	15	
" " " " 3"	"	6	32	4	
" " " " 3½"	"	2	32	0	
" " " " 2"	"	59	147	8	
" " " 2½"	"	19	52	4	
" " " 3"	"	8	24	0	
" " box 1½"	"	27	21	1	6
" " " 2"	"	14	11	10	8
" " " 2½"	"	64	56	0	
" " " 3"	"	26	65	0	
" " Chubbs patent 2½"	"	7	37	10	
" " " 3"	"	4	22	12	
" " " 3½"	"	1	15	8	
" " draw 3"	"	33	185	10	
" " Chubb 2½"	"	6	32	4	
" " " 3"	"	5	28	2	0
" " desk 3'	"	1	2	3	
" " of an iron pillar letter box without key	"	1	1	0	
			10642	13	5

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24

			10642	13	5
Locks brass unfinished for pillar letter box without key	No	15	45	"	"
Leather belts double 3"	ft	55	61	14	"
Lead pig	lbs	104-11½	6	8	8
" Sheet 1/16"	"	3 —	"	6	"
Measures gallon, imperial	Set.	2	11	4	"
" " glass 10 oz	No	1	2	14	"
" " " 2½" Dia for rain gauge	"	5	16	4	"
Mats packing	"	6	"	7	"
Nails English 1"	lb	"	4	"	11
" " 2½"	"	"	8	"	15
" " 2"	"	2	8	"	7 3
" " ¾"	"	"	1½	"	" 3
Nuts Hexagon ½"	"	31	7	7	13 9
" " ⅝"	"	40	4	10	1 "
" " ⅞"	"	154	4	38	9 "
" " 1"	"	7	2	1	12 6
" " 1⅛"	No	139		34	12 "
" " 1¼"	"	201		50	4 "
" Iron not tapped and incomplete	lb	51		3	3 4
" Square 1"	No	20		1	14 "
Oil cocoanut	B	25½		7	3 11
Oil Lamp	"	18½		4	3 10
Oil Linseed	"	8½		3	13 4
				110	11 5

			110	11	5
Oil of peppermint	oz	2	"	8	"
" of Aniseed	"	2	"	8	"
" Neat foot	B	6	3	"	"
Pens drawing large	No	1	"	7	"
Pincers 6"	"	2	1	10	"
" 10"	"	4	3	4	"
Pinion wire steel of sizes	ft	9-6	13	5	9
" " brass of sizes	"	" 4	"	4	"
Pliers flat ½"	No	4		4	"
Pans copper with chains	"	2	4	"	"
Pump double unfinished	"	3	600	"	"
Pens drawing brass	"	63	7	14	"
Pans brass for scales	"	8	4	"	"
Paper sand rough & smooth	"	2½	"	7	"
Paint Silicate No 2848	lb	2	"	7	2 "
" Red magnetic	"	5-12	1	15	7
" Carsons oake	"	5-8	1	1	10
" Anticorisons Chocolate	"	23 —	2	15	11
" Carson Blue	"	28 —	8	4	"
" enamel	gal	4 21/32	51	3	6
Powder graphite	lb	701-8	175	6	"
" Paris	"	3-3¾	9	11	3
" Emery rough & smooth	"	12-13½	8	2	1
" Red lead	"	4-12	"	2	3
Prisms	No	12	22	8	"
Pitch	lb	12½	"	12	6
Phenyle	B	12	4	12	" "
			11957	8	3

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			11957	8	3
Rack brass ¼"	ft	21-6	34	15	"
" " ⅜"	"	27-1½	64	8	
" " length of 6"	pair	46	74	12	"
" " of pieces	ft	12	19	8	"
Rings divided	"	1	9	"	
Rules folding 2', 2 folds	"	5	11	11	"
" 1', 2 folds	"	6	5	2	"
Rope cotton	lbs	5	2	5	6
Rubber Indian vulcanized ½"	"	26-9½	76	9	8
" " " ⅝"	"	9	26	"	3
" " " ¾"	"	16	46	2	8
" " " 1"	"	145	41	9	3
Rosin	"	5-4½	"	1	3
Saw band 26"	No	1	3	8	"
" " 28"	"	5	20	"	"
" " 30"	"	4	8	15	"
" circular 36"	"	1	5	"	"
" pit 7 ft	"	3	21	"	"
Salters Spring balance to weigh 80 lbs	"	1	9	8	"
Scales brass to weigh small coins	"	1	7	"	"
" " " 100 — ½ Rupee	"	1	20	"	"
" " " 100 — 2 Annas	"	1	20	"	"
Screw jack Halleys Patent 4 Ton	"	3	96	"	"
" " " Small	"	1	10	"	"
Spades	"	4	3	12	"
Shafting Augers	"	15	72	5	2
			134407	"	

			13440	7	"
Stone grinding 5'-10" × 8"	No	1	110	"	"
Steam guage 100 lbs	"	1	30	"	"
Screw Iron ⅜"	lbs	27-3	"	6	10
" " " ½"	"	86-4	2	4	"
" " " ¾"	"	86-4	3	9	6
" " " 1"	"	9-10	"	9	10
" " " 1¼"	"	24	"	1	8
" " " 1½"	"	27-3	2	2	1
" " " 2"	"	13-1	1	"	4
" " " 2¼"	"	2	"	2	6
" " " 3"	"	"	4	"	6
" " " 4"	"	"	5	"	9
" Brass ¼"	"	9-4	"	7	"
" " " ⅜"	"	48	"	2	4
" " " ½"	"	45-11	3	9	4
" " " ⅝"	"	29-10	2	7	9
" " " ¾"	"	25-3	2	5	10
" " " 1"	"	20-5	3	8	1
" " " 1¼"	"	47-8	10	6	10
" " " 1½"	"	11-4	2	7	8
" " " 2"	"	17	"	4	4
" " " 2½"	"	6-6	1	10	"
Spirit bubble 1½"	No	5	2	8	"
" " " 1⅝"	"	8	4	8	"
" " " 1¾"	"	2	1	4	"
" " " 2"	"	44	30	4	"
" " " 2½"	"	79	59	4	"
" " " 2¾"	"	25	20	5	"
			13743	10	10

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			13743	11 10
Spirit bubble 3"	№	79	197	8 "
" " 3¼"	"	22	55	" "
" " 3½"	"	2	5	" "
" " 3¾"	"	7	17	8 "
" " 4"	"	12	30	" "
" " 5"	"	9	24	12 "
" " 5¼"	"	4	11	" "
" " 5½"	"	19	52	4 "
" " 6"	"	17	51	" "
" " 7"	"	40	140	" "
" " 7½"	"	2	7	" "
" " 7¾"	"	4	14	" "
" " 8"	"	70	288	12 "
" " 8½	"	62	255	12 "
" " 9"	"	1	4	8 "
" " Common plain 2"	"	6	2	4 "
" " " " 2½"	"	7	3	1 "
" " " " 3"	"	9	4	8 "
" " " " 3½"	"	8	4	8 "
" " " " 4"	"	7	4	6 "
" " Ground & divided 2½"	"	20	45	" "
" " " " 3"	"	17	40	6 "
" " " " 3½"	"	17	42	8 "
" " " " 4"	"	15	45	" "
" " " " 4½"	"	6	21	" "
" " " " 5"	"	7	28	" "
Spirit glass tube of sizes	"	8	2	8 "
" level glass	"	43	43	" "
Soap windsor	C	20	1	9 "

			15785	4 10
Soap country	Bar	2	" 9	6
Salamonide	lb	5-10	1	6 6
Solder for iron & copper	"	11-15½	3	11 9
Shutters for C. lamp	№	4	40	" "
Steel rod ⅛"	lb	22-2½	5	8 7
" " 5/16"	"	" -15	"	3 9
" " ¼"	"	2-9¾	"	10 5
" " 5/8"	"	9- "		2 4 "
" " 2¼"	"	242-		60 8 "
" Square ¼"	"	2-10¾	"	10 6
" " 3/8"	"	" -7	"	1 9
" " ¾"	"	16- "		4 " "
" Sheet 1/16"	"	13-5½	3	5 4
" Slab 4½" x 4½"	"	173		43 4 "
Spirit Methylated	G	8		7 " "
Skin Schamois	№	½	"	8 "
Screw plate with taps	"	1.		6 7 "
Silver	Sola	18¾		18 12 "
Tape measuring 50 ft without case	Ea	11		36 1 6
" " 66 ft " "	"	25		125 " "
" " 25 ft " "	"	12		38 " "
Turn Screw 18"	№	1		1 2 "
Thermometer	"	1		2 8 "
Tracing glass frame only	"	1.		34 8 "
Tacks iron ¼"	lbs	13-4		4 2 3
" " ½"	"	" -10	"	3 1
" " 3/8"	"	8-1		2 8 4
" " ¾"	"	1-15	"	9 8
			15628	14 9

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15628 14 9

Jacks iron 1"	℔	1-11	. 5	1
" " 1¼"		1-12	. 8	9
" Copper ¾"	"	5-7	4	1 3
Tanks iron	℔	5	121	14 .
Tubes Indian rubber 2⅜" inside diameter	℔	2	18	1 .
Tin block	℔	2-12½	1	11 .
Thread lamp	"	-6½	.	3 9
Tin pot common	℔	2	.	2 .
Turpentine	℔	2 7/16	1	. .
Tallow	℔	9-6	2	3 11
Tubes copper 1½" × ⅛"	"	135 -	84	6 .
" " 2" × ⅛"	"	62 -	38	12 .
" " 3"	"	130 -	81	4 .
" brass ⅛"	"	-4	.	2 3
" " ¾"	"	-13	.	7 3
" " ¾"	"	3-12½	2	1 11
" " 1"	"	9-11	5	7 2
" " 1⅛"	"	22-14	12	13 10
" " 1¼"	"	18-7¼	10	5 11
" " 1⅜"	"	25-12	14	7 9
" " 1½"	"	30-4¼	17	. 3
" " 1¾"	"	9-4	5	3 3
" " 1⅞"	"	91-12	51	9 9
" " 2"	"	60-6½	33	15 7
" " 2¼"	"	120 -	67	8 .
" " 2½"	"	14-12¾	8	5 1
" " in & outside Frames 1"	"	9 -	6	12 .
" " " 1⅜"	"	1-8	1	2 .
" " " 1½"	"	2-12	2	1 .
			16223	1 6

16223 1 6

Tubes brass in & outside diams 1⅝"	℔	3 -	2	4 "
" " 4" × 1¾"	ft	67-8	245	15 11
" " 12" × 1½"	"	60 -	259	11 .
" " 10" × 1"	"	30 -	56	4 "
" " to slide inside 1¾"	"	40 -	156	4 .
" " " 1½"	"	40 -	173	2 .
" " " 1"	"	35 -	39	6 .
" W. I. Boiler 2¼"	№	9	10	13 3
" " 3"	ft	71¼	46	" 3
" Monty Metal for boiler	№	15	105	" .
" Iron for boiler 6-10" × ⅜"	"	5	25	" .
" W. I. 4"	ft	21-8	10	13 4
Timber Karrai	cft	2-8- "	5	11 4
" teak planks & sidecuttings	cft	4810-1-6	14731	" "
" Red Cedar logs	"	238-4-4	327	11 11
" " planks of sizes	"	32-3-11	48	7 10
" White Cedar logs	"	279-5-4	454	1 7
" " planks of sizes	"	18-11-6	33	2 10
" Peddock wood	"	40-2-9	52	12 10
" Deal planks 1"	Sqft	4012 - "	626	14 .
" Mango planks ¾"	"	3050 - "	555	15 10
" Ebony	℔	66 -	10	8 "
Twine Europe	"	6-11½	4	9 10
Varnish Japan	℔	1 7/16	1	12 9
" Copaul	"	¾	"	14 1
" Japan best black	"	3	4	2 .
			34217	8 1

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				34217	8	1
Vices pin 2½"	№	3		6	3	-
" " 3"	"	2		6	6	-
" Standing large 100 ℔	"	1		19	11	-
Velvet blue	yrs	¾		-	6	-
Weights brass ¼ to 50 Tolas	℔	1		8	-	-
" " ¼ to 10 Tolas	"	1		1	14	-
" " ½ to 5 "	"	2		2	-	-
" C.I. ¼ ℔	№	6		1	8	-
Wax bees	℔	3-8½		2	11	3
Wire steel G № 8	"	20	-	2	4	8
" " ½"	"	-	4	-	-	6
" iron G. № 8	"	79-12		12	7	4
" Copper 1/16"	"	1-1½		-	12	10
" " ⅛"	"	13-12		10	1	4
" " 3/16"	"	9-14½		7	4	1
" " ¼"	"	8-½		5	14	4
" " ⅜"	"	1-5		-	15	5
" " G № 7	"	4-8		3	4	10
" " 3/32"	"	2-		1	7	6
" brass 1/16"	"	3-5¾		2	3	3
" " ⅛"	"	2-6		1	8	4
" " ¼"	"	14-7¾		9	8	-
" " ⅜"	"	12-5		8	1	2
" " G № 13	"	1-15½		1	4	8
" cloth brass perforated 30 holes to an inch	Rep.	30		41	4	-
" Germansilver 1/16"	℔	-5⅜		-	12	7
" " ¼"	"	-8¼		1	3	4
" " ⅜"	"	-	1	-	2	4
" " 7/16"	"	5-3½		12	3	8
				34388	14	6

				34388	14	6
Wire Germansilver G № 22	℔	1⅛		-	4	4
" " № 24	"	1-4		2	14	10
" " № 26	"	-14 25/32		2	2	4
Zinc sheet G № 7	"	68-		15	3	3
" " 7'x3'	"	46-		10	4	10
" block	"	51-5		11	-	1
Rupees				34430	12	2

2123/29

Madras
23th July 1885

Asst. Supt.

Asst. O'Connell
Genl. Supt. P.W. Workshops.

2/2.3.
30

Bm Em 3
7464/85

2123
31

(a)

General charges Account of the Presidency P.W. Workshops for the year 1884-85.

ENCLOSURE
29 JUL 85
EXAMINER, P.W. ACCOUNTS

To Cost of Permanent Establishment	17754	14	7	By Percentages or outturn to meet the cost of General charges as under:—		
" Cost of Contingent Establishment	...					
			20330	12	11	
" Cost of Contingencies	2575	14	4			
" Cost of fuel, oil & other materials used for Engines &c & repairs to Machinery Tools and Plant	4976	13	-	Mechanical Department	27114	10 8
				Instrument Department	1075	4
" Public Department	163	11	3	Foundry	4976	2 4
" Machinery and Plant				Cash for unclaimed wages &c	14	4 -
" Mechanical Department for repairs to Machinery &c	653	2	10	Sales	...	
" Instrument do do	16	11	1	Public Department	5	14 2
" Block for depreciation at 3%	2570	5	-			
" Machinery and Plant at 4%	2383	4	-			42,384 15 6
" Government for pension & leave allowances in the Permanent Establishment charges.	2221	15	9			
" Labour	288	9	2			
			13,274	8	1	
" Balance carried to Profit & Loss	...		8779	10	6	
Rupees			42,384	15	6	Rupees 42,384 15 6

2123/32

Madras 29th July 1885

Signature illegible

H. Mack. O'Connell
General Superintendent P.W. Workshops

(6) Profit and Loss

To Government for Interest on the opening balance as per statement	2,00,549 – 3 – 2		By Balance of Charges General account		8779 10 6
Plus amount due on purchase Dr account	1463 – 3 – 8		" Profits on Estimated Works and Standard rates.		
	2,02,002 – 6 – 10		Mechanical Department . . .		
			Instrument Department . . .		
At 4 per Cent as per G.O. No 527 of 8th June 1869		8080 1 6	Materials . .		
" Foundry		65 15 8			
" Raw Materials		2658 4 4	Balance of Interest due to Govt.		7648 2 –
" Purchase		" . .			
" Public Department		6 3 –			
" Sales		58 7 10			
" Mechanical Department		5610 4 6			
" Instrument Department		48 79			
	Rupees	16427 12 6		Rupees	16427 12 6

2/23/33

Madras 28th July 1880

Hugh. O'Connell
General Superintendent P.W. Workshops

(c)

Her Majesty's Government

To Transfer to Capital Account			By Opening Capital		
To Cash	11,010 12 1		By Cash for cheques drawn	118,000 . .	
" Transfers	142758 6 .		" Transfers	52996 . 1	
" Balance of Interest due to Govt	7618 2 .		" Interest on Capital	8080 1 6	
		161417 4 1	" Pension and Leave allowances	2221 15 9	
		19880 13 3	" Block	. . .	
" Increase to Capital			" Machinery and Plant	. . .	181298 1 4
		Rupees 181298 1 4			Rupees 181298 1 4

2123/34

Madras 20th July 1885

Hugh. O'Connell
General Superintendent P.W. Workshops

Clothes
18th July 1886.

Thos. O'Connor
Steward Drummondstad Asylum

Statement 29th Nov. 1886

Statement 29th Nov. 1886

21/23/35

" Amount to Credit 1886 193

" Interest 29th Nov. 1886 3

Balance 29th Nov. 1886 3-

Balance 29th Nov. 1886 3-

Balance due to Contractor on the 1st Oct. 1886

Balance due by Contractor on the 1st Oct. 1886

Deduct Amount of Contractor's Account for Clothes supplied during the Quarter ended 29th Nov. 1886

Deduct Amount of Contractor's Account for Clothes supplied during the Quarter ended 29th Nov. 1886

(c) Block

To Balance on 1st April 1894	85,677 3 1	By Depreciation at 3%	2,570 5 -
" Government		" Balance	83,106 14 1
	Rupees 85,677 3 1		Rupees 85,677 3 1

2/23/36

Madras 28th July 1895

Hugh. O'Connell
General Superintendent P.W. Workshops

Cleveland
20th July 1886

Thank you for your letter

Thank O. Cannon
Edward Richmond Esqr. Melbourne

Ashore 7h.0m 9.7

Ashore 7h.0m 9.7

21/23/37

" Ballarat

Wind N.W.

Do Ballarat on N. Island 100m

" Melbourne Harbour

Sydney 19.1 Bay Christchurch N.Z.

1899 " 1899 " Melbourne Harbour

100 " 100 "

9380 h.

(5)

Cash.

To Balance			By Government	110 10 12 1	
" Government	110000		" Purchase	46031 1 1	
" Sales	5536 3 3		" Mechanical Department	31068 11 7	
" Profit & Loss for unclaimed wages &c.	14 4 "		" Instrument Department	10942 10 7	
			" Foundry	2080 13 9	
			" Charges General	2033 12 11	
			" Labour	2086 9 3	
	123550 7 3				123550 7 3

2/23
38

Rupees 123550 7 3 — Rupees 123550 7 3

Madras
20th July 1886

Hugh O'Connell
General Superintendent P.W. Workshops

(h)

Labour.

To Cash	2085 9 3	By Mechanical Department	1320 14 4
		" Instrument Department	291 7 4
		" Foundry	181 10 5
		" Charges General	289 9 2
	2085 9 3		2085 9 3

2/23
39

Rupees 2085 9 3 — Rupees 2085 9 3

Madras
28th July 1885

J. Chatterton

Asst. O'Connell
General Superintendent P.W. Workshops

Mechanical Department

To Balance on 1st April 1884			9,533 12 11	By Sales		910 13 -	
" Cash		31,068 11 7		" Public Department		109,539 8 -	
" Materials		55,979 3 1		" Instrument Department		2,215 2 6	
" Percentages for General charges		27,114 10 8		" Foundry		160 6 3	
" Foundry		11,216 9 11		" Charges General		653 2 10	
" Public Department		34 4 2		" Raw Materials		485 11 11	
" Labour		1,320 14 4	126,731 5 9				113,964 12 6
				" Balance			16,793 1 9
				" Loss		2/23/40	5510 4 5
			Rupees 136,268 2 8				Rupees 136,268 2 8

Madras
20th July 1885

Hugh. O'Connell
General Superintendent P.W. Workshops

(j)

Instrument Department

To. Balance on 1st April 1884		6950 12 -	By Sales	1104 4 -	
" Cash	10942 10 7		" Public Department	28795 1 -	
" Raw Materials	5936 5 11		" Charges General	16 11 1	
" Percentages for Charges General	10754 - 4				29916 - 1
" Mechanical Department	2215 2 6				
" Public Department	- 6 -		" Loss		48 7 9
" Labour	2947 4				
		30193 - 8	" Balance		7179 4 10

2/23
41

Rupees 37143 12 8

Rupees 37143 12 8

Madras
20th July 1886

J. Chamberlain

Hugh. O'Connell
General Superintendent P. W. Workshops

(K.)

Foundry

To Cash		2,080	13	9	By Mechanical Department	11,216	9 11
" Raw Materials		4363	8	10	" Loss		65 15 8
" Mechanical Department		160	6	3			
" Profit on percentages received for Charges General		1149	2	4			
" Labour		181	10	5			
	Rupees	11,282	9	7	Rupees	11,282	9 7

2123/42

Madras
20th July 1886

H. Mackenzie Lieut

Hugh O'Connell
General Superintendent P.W. Workshops

(L.) Manufacture

To Balance on 1st April 1884	400 . .	By Balance	
		" Public Department	400 . .
			400 . .

2123/43

Rupees 400 . .

Rupees 400 . .

Madras
28th July 1885

J. Thundercliffe

Stuart O'Connell
General Superintendent C. W. Workshops

(M)

Raw Materials

To Balance on 1st April 1884		26609 2 9	By issues to Mech. Department	55979 3 1	
" Purchase	46234 13 5		" Ave M. Department	5986 5 11	
" Public Department	37574 2 4		" Foundry	4363 8 10	
" Mechanical Department	485 11 11		" General	1976 13 .	
" Machinery and Plant . . .	84294 11 8		" Sales	1572 13 1	
			" Public Department	936 2 .	73814 13 11
			" Loss		2658 4 4
			" Balance		34130 12 2
		110903 14 5			110903 14 5

2123/44

Madras
20th July 1885

Stuart

Stuart D'Connell
General Superintendent A.M. Workshops

(N) Purchase

To Cash	46031 1 1	46031 1 1	By Balance on 1st April 1888		1453 3 8		
" Balance	1657 . .		" Raw Materials	46234 13 5	46234 13 5		

Rupees 47688 1 1

2/23
45

Rupees 47688 1 1

Madras
21st July 1888

Hugh. O'Connell
General Superintendent P. W. Workshops

Scale

(4)

Salle des Seances

Hall O. Emma
Edward Stanwood & Ph. Mackie

Thos. J. Crewes
Grocer & Provisioner & Wine Merchant

Chelsea 19:12:81

21/23

Chelsea 19:12:81

Chelsea 19:12:81

(9)

Chemises

2 Calico Chemises	11:4:3 £	Pr Calico Chemises	2:9:6 · 1
" Chemises	2:9:6 · 1	" Chemises	11:2:3 £
	19:12:81		19:12:81

Balance sheet

To Block	83106 14 1	By Purchase bills payable	1657 - -
" Machinery and Plant	71427 14 7	" Capital	2,20,430 - 5
" Mechanical Department	16,793 1 9		
" Instrument Department	7,179 4 10		
" Manufacture	- - -		
" Raw Materials	31,430 19 2		
" Sales or Bills receivable	536 1 -		
" Public Department	8,613 - -		
	Rupees 2,22,087 - 5		Rupees 2,22,087 - 5

2123/49

Madras
20th January

Lieut. J. Connell
General Superintendent P.W. Works &c

Presidency P. W. Workshops
Revenue Account for the year 1884-85.

1883-84		Expenditure			1883-84		Earnings		
	Per Cent on Gross receipts		Abstract	Per cent on Gross receipts				Abstract	
18,626 4 -	47.80	Establishment	17,918 9 10	42.27	38,760 5 2	By Cartages		42,384 15 6	
2,864 2 3	6.4	Contingencies	2,864 7 6	6.75					
4,724 11 7	12.13	Repairs to Machinery	5646 10 11	13.32					
2,640 10 11	6.00	Depreciation Block	2570 5 .	6.06					
2,383 14 7	5.92	do Machinery	2,383 4 .	5.62					
1,170 7 7	2.06	Pension & Gratuities	2,221 15 9	5.24					
			33,605 5 .	79.26					
8,779 4 11	21.40	Balance net Earnings	8779 10 6	20.74					
			42,384 15 6	100.				42,384 15 6	

2123/50

Madras
12th July 1885

J. Chamberlain

Hugh O'Connell
General Superintendent P. W. Workshops

List of Bills outstanding on the 31st March 1885

Occasion	No. of Bills	Adjustment	Cash	Remarks
1883-84.				
Mr S. Francis Madras	575	2/12/3 5/4 ..	9 5 .	Paid 8th April/85
do	577	....	18 ..	do
M. Valayutha Chetty, Agent and Manager South India Press & Workshops, Madras	678	...	10 ..	Paid 11th April/85
Mr S. Francis Madras	640	...	23 15 .	Paid 8th April/85
T. Vincatrungum Naidu	642	...	1 15 .	" 11th April/85
1884-85				
T. Subrayen Trichy.	144	...	1 3 .	Paid 11th April/85
Sundrayappa Anchetty	145	...	14 10 .	
Exs. Engineer Bellary &c	164	15 ..		
M. Vyapury Madras	187	...	2 10 .	Paid 3rd July/85
Mr S. Francis, Madras	193	...	1 2 .	" 8th April/85
Ramasawmy, Packer	194	...	11 6 .	"
Mr S. Francis, Madras	366	...	1 7 .	Paid 8th April/85
do	367	...	4 3 .	do
Messrs Weir & Co Madras	368	...	53 13 .	
Mr B. H. Rozario Madras	372	...	1 15 .	Paid 11th April/85
Ex Engr in charge Govt Workshops Vaulavchavadi	384	101 14 .		
Lieut R. H. Mahon R.E. Madras	395	...		Adjusted.
District Judge Kistna	484	...	274 15 .	Paid
President Municipal Commissioners, Berhampore	516	117 1 .		
Member Attendant, Madras	554	...	1 7 .	Paid 8th April/85

Rupees 16027 12 6

Sd/ Knight D. Commr

Genl & Superintendent P.W. Madras

Rupees 16027 12 6

Net Revenue Account

To Amount credited to Mr Capitation &c 202002-6-10	By Mr D Earnings 8000 1 6
" Refund account Loss	" Balance of Mr Account due to Government 16118 2 .
	8779 10 6

Madras 2nd July 1885

On whom	No. of Bills	Adjustment	Cash	Remarks
Pahilwan Saib, Madras	557	" " "	3 " "	Paid 18th Inst
Mr S Francis Madras	558	" " "	12 13 "	" 8th "
Ex: Engineer Nilgiri Dte	570	54 2 "		
Mr S. Francis, Madras	575	" " "	21 "	Paid 8th "
do	576	" " "	12 6 "	
Ex: Engineer Trichinopoly Dte	583	740 " "		Adjusted
Consulting Architect to Govt Madras	597	6371 14 "		
do	616	419 9 "		Adjusted
Consulting Engr for Railways	618	14 " "		
Ex: Engr Jubbulpore E.I. Ry	619	1 9 "		
Collector of Chingleput Dt	630	" " "	2 15 "	Paid
Superintendent Travancore Survey	642	" " "	55 " "	do
Ex: Engineer Madura Dte	643	20 3 "		Adjusted
do Southern Dte	644	10 2 "		do
do Godavari Dte	647	17 13 "		do
do No 1 Tank Dte Madura	650	42 7 "		do
Master Attendant Madras	689	7 7 "		do
Commissary of Ordnance	693	18 7 "		do
Collector of Bellary	696	42 5 "		do
Adjutant General Coty	714	" 8 "		do
do	715	126 8 "		do
Master Attendant Madras	741	4 10 "		
Secretary Board of Revenue	743	74 " "		Adjusted
Post Master General Madras	744	18 3 "		do
do	745	21 12 "		do
Collector of Tanjore	753	6 5 "		do
Ex: Engr Ganjam Dte	760	52 3 "		
Secretary to Govt P.W.D. Madras	762	2 6 "		Adjusted
Examiner of P.W. Accounts	765	66 4 "		Paid
Ex: Engineer Nandidrug Dte	772	47 4 "		Adjusted
do No 1 Tank Dte Madura	775	1 10 "	2123/53	
do Tungam Project Dte	776	19 14 "		Adjusted
do Godavari Dte	780	88 1 "		do
Collector of South Canara	792	47 5 "		
Ex: Engr No 2 Tank Dte Madras	802	5 " "		
do B. Project Dte	803	15 3 "		Adjusted
do Godavari Dte	804	3 13 "		do
do Krishna Eastern Dte	806	51 1 "		do
Engr in chief Bellary Kistna Flats	807	1 2 "		do
Ex: Engr Villupuram Ry Survey	808	5 7 "		do
Commissioner of Salt and Abkaree Revenue Madras	811	41 " "		do
Ex: Commissariat Officer, Bangalore	814	4 10 "		do.
Rupees		8,613 " "	536 1 "	

Madras
20th July 1886

Mem. O. Commissariat
General Superintendent

PUBLIC WORKS DEPARTMENT.

A

PROCEEDINGS OF THE MADRAS GOVERNMENT.

2123/53 UNDER date the

READ the following

From the Sup^t P. W. Accts. A. C. No 54 Dated 24th August 85.

Submitted

With his letter above recorded the Examiner P. W. Accts. submits the annual accounts of the Presidency P. W. Workshops for the year 1884-85.

2. The liabilities charged during the year amounted to Rs 1,81,298, while the assets were Rs 1,73,651, showing a net loss on the

the year's transactions of Rs 7,648.

3. The outturn of the year was Rs 1,42,322, against Rs 1,19,506 in the preceding year, and Rs 1,39,937 in 1882-83.

4. The Supdg: Supvr: V Circle, will report on the question of the continuance or otherwise of existing orders on restricting the operations of the workshops in regard to work for other Departments.

and for the general public. These orders have now been in force sufficiently long to enable their full effect to be properly determined. In submitting his report, the Supdg: Supvr will enter fully into the matter and place Govt in possession of the facts of the case as they at present exist.

2123/54

5. In para 5 of G.O. No 360. W. dy 9th Feby 1/6/05 it was remarked that

the

the repair of Govt.
mathematical ins-
truments, as carried
out by Messrs Orr & Sons
of Madras, was not
altogether satisfactory
both as to quality
and price; and in
their report recorded
in G.O. No. 1494. W.d
16th June 1884, the
Committee appointed
to report on the
workshops recom-
-mended the retention
of the mathematical
instrument shops.
The Govt. however
were

were of opinion that
the experiment of
restricting the operation
of the Workshops had
not lasted sufficiently
long to allow of healthy
private competition.
The Supdg. Engineer
will now report for the
information of Govt.
what mathematical
instrument work has
been done since then*
by whom; and whether
it has been efficiently
& economically
carried out.

6. The Govt do not
consider

21/23/55
On a further representation
from members of the Legislature
Govt
Proceedings dated 10th March
1885 No 539 W, directed
that the firm should
be entrusted with the
repair of mathematical
instruments so far as
practicable; and in
para 2 of that order, the
Supdg Engr was directed
to report in due course
on the character of the
work done, as compared
with that done
* by outside agency
entered at the P.W.
workshops - the Supdg
now
Engr will state his
views on that point
in connection with
the report called
for in para 4 of
these Proceedings

considers that any advantage would be gained by adopting the course proposed in para 5 of the Deputy Examiner's report.

7. The attention of the Govt Supt. will be directed to paras 8 & 11 of ~~that foregoing~~ report; and he will note the Deputy Examiner's remarks therein for future guidance.

8. ~~Sanction is accorded to the discontinuance~~ The submission of the returns mentioned by the Deputy Examiner in para 13 of his report may be discontinued.

Cs.
28-8-85

LL.
7-9-85

91

V. Govt

Kindly say if the Examiner's letter and the 4 enclosures are intended to be printed

2123
5a

11/9/85

Govt Supt

PUBLIC WORKS DEPARTMENT

PUBLIC WORKS DEPARTMENT.

No. 2123 25

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 11th Septr/85

2123/57

READ the following

from the Examiner P. W. Accounts (A.E. No. 54 dd/ Augt 24th 1885)

With his letter above recorded, the Examiner P.W. Accounts submits the annual accounts of the Presidency P. W. Workshops for the year 1884/85.

2. The liabilities during the year amounted to Rupees 1,81,298, while the assets were Rs 1,73,650, shewing a net loss on the year's transactions of Rupees 7,648.

3. The outturn of the

year was Rs 1,42,322, against Rs 1,19,506 in the preceding year, and Rs 1,39,937 in 1882/83.

4. The Suptg Engineer V Circle, will report on the question of the continuance or otherwise of existing orders restricting the operations of the Workshops in regard to work for other Departments and for the general public. These orders have now been in force sufficiently long to enable their full effect to be properly determined. In submitting his report, the Suptg Engineer will enter fully into the matter and place Government in possession of the facts as they at present exist.

5. In para 5 of G.O. No 360 W dated 9th February 1884, it was remarked that the repair of Government Mathematical instruments, as carried out by Messrs Orr and Sons of Madras, was not altogether satisfactory as to both quality and price; and in their report recorded in G.O. No 1494 W dated 16th June 1884, the Committee appointed to report on the Workshops recommended the retention of the Mathematical

instruments shops,

1. On a further repre-
sentation from Messrs
Orr & Sons, the Government,
in Proceedings dated 10th
March 1885 No 554 W,
directed that that firm
should be intrusted with
the repair of Mathematical
instruments so far as
practicable; and in para
2 of that order, the
Supty Engineer was
directed to report in
due course on the character
of the work and its
cost, as compared with
that executed at the
S. W. Workshops. The

2123
59

Supty Engineer will now
state his views on that
point, in connection with
the report called for in
para 4 of these Proceedings.

6. The Government
do not consider that any
advantage would be gained
by adopting the course
proposed in para: 5 of the
Deputy Examiner's report.

7. The attention of
the General Superintendent
will be directed to paras
8 & 11 of that report, and
he will note the Deputy
Examiner's remarks thereon
for future guidance.

8. The publication of

the returns mentioned
by the Deputy Examiners
in para 13 of his report
may be discontinued

7.9.86

60

parked

Lapsing v Circle ✓ 23/9
Ext & Vacation ✓

Govt. of Madras 1885

PUBLIC WORKS.

Dated

Rec'd

Encl.

G.O. No. 1885.

(1) Number of pages 120

(2) Date of repair 3-11-87

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works DEPARTMENT

G.O. No. / B.P. No. 2123-W

Press. / Mis.

Dated 11-9-1885

198 .

Scribe

Not to be folded or roughly handled

Archives I--10,006 (-80.

2123-W
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

D—the following papers :—

From D. C. GORDON, Esq., Examiner, Public Works Accounts, to the Secretary to Government, Public Works Department, dated Madras, 24th August 1885, No. 54 W.

I have the honor to forward, for information and orders of Government, letter 656 W., dated 28th July 1885, from the General Superintendent, Public Works rkshops, with the annual accounts of the shops for 1884-85, and note by Rainier, Deputy Examiner.

2. The main points to be noticed are as follows, comparing the years 1883-84 1884-85 :—

	1883-84.	1884-85.
	RS.	RS.
Capital	1,80,582	2,02,002
Financial and general liabilities	37,999	41,397
Outturn	1,19,500	1,42,322
Establishment charges	18,823	20,331
Average centage added to the actual cost of outturn ...	48·3	42·4
Loss	1,886	7,648
Percentage of financial and general liabilities on capital.	21·04	20·49
Percentage of centage charges on actual cost of outturn on capital	21·50	20·98

The value of outturn for this department was Rs. 1,12,431, which includes average of 42·4 per cent. over actuals, paid for by divisions, and, in addition, ernment meets the loss of Rs. 7,648.

3. There is no object in adopting the course proposed in paragraph 5 of the uty Examiner's report, for it would merely transfer the interest charge from a ent to a subsequent year's account, and it is not worth while revising practice for mall a result.

4. The attention of the General Superintendent is required to the points noted in graphs 8 and 11.

5. There is no objection to the discontinuance of the returns mentioned in graph 13.

ENCLOSURE.

From H. O'CONNELL, Esq., General Superintendent, Public Works Workshops, to the Examiner of Public Works Accounts, dated Madras, 28th July 1885, No. 656 W.

I have the honor to forward, for submission to Government, the accounts of the Presidency lic Works Workshops for 1884-85.

2. During the year the workshops became liable to Government—

	Rs.	A.	P.
(1) To cash drawn from treasury	1,18,000	0	0
(2) To value of stores received without payment	52,996	0	1
(3) To interest on capital	8,080	1	6
(4) To pension and leave allowances	2,221	15	9
Total ...	1,81,298	1	4

3. On account of this amount the following payments were made :—

(1) Payments into treasury	11,010	12	1
(2) Approved invoices	1,42,758	6	0
(3) Balance of interest due to Government	7,648	2	0
Total ...	1,61,417	4	1
Leaving for increase to capital	19,880	13	3

4. The gross profits amounted to 42,384 15 6
against which charges aggregating 50,033 1 6

have been debited, leaving a balance of 7,648 2 0
interest due to Government.

5. The opening and closing balances of the capital accounts, as noted in the following table, show an increase to capital of Rs. 19,880-13-3 :—

—	Capital on 31st March 1885.	Capital on 31st March 1884.	Increase.	Decrease.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Block	83,106 14 1	85,677 3 1	...	2,570 5 0
Machinery and plant	71,427 14 7	69,681 12 1	11,846 2 6	...
Mechanical department	16,793 1 9	9,533 12 11	7,259 4 10	...
Instrument do.	7,179 4 10	6,950 12 0	228 8 10	...
Raw materials	34,430 12 2	26,609 2 9	7,821 9 6	...
Sales	536 1 6	3,142 4 0	...	2,606 3 0
Public department	8,613 9 0	10,107 8 0	...	1,494 8 0
Manufacture	...	400 0 0	...	400 0 0
Deduct bills payable ...	2,22,087 0 5	2,02,002 6 10	27,155 9 7	7,071 0 6
	1,657 0 0	1,453 3 8	1,657 0 0	1,453 3 8
	2,20,430 0 5	2,00,549 3 2	25,498 9 7	5,617 12 4
	2,00,549 3 2	...	5,617 12 4	...
	19,880 13 3	...	19,880 13 3	...

6. The results of the working for the year under review as compared with those of three previous years are as follow :—

—	1881-82.	1882-83.	1883-84.	1884-85.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Outturn	2,34,363 3 4	1,39,936 10 4	1,19,595 13 7	1,42,322 7 1
Net profit	...	...	...	...
Net loss or interest unpaid	6,823 1 2	2,928 3 7	1,885 13 4	7,648 2 0

7. The loss in the Mechanical department was owing principally to the high rates paid for teak timber, while the estimated rates were charged for and recovered for wood-works supplied.

I have only to reiterate the opinion of Captain Baddeley, R.E., the late General Superintendent, that the works cannot be economically supervised unless it is thought expedient to cancel the restriction contained in G.O., No. 2064 W., dated 12th April 1882, by which the workshop is almost entirely closed to every department of Government except the Public Works Department, and I fear the present suspension of important works in the Public Works Department will greatly tell on the workshops. I would therefore submit the expediency of removing the restrictions and throwing the shops open to all departments of the service.

2123/2

Order—dated 11th September 1885, No. 2123 W., Public Works.

With his letter above recorded, the Examiner, Public Works Accounts, submits the annual accounts of the Presidency Public Works Workshops for the year 1884-85.

2. The liabilities during the year amounted to Rs. 1,81,298, while the assets were Rs. 1,73,650, showing a net loss on the year's transactions of Rs. 7,648.

3. The outturn of the year was Rs. 1,42,322 against Rs. 1,19,506 in the preceding year and Rs. 1,39,937 in 1882-83.

4. The Superintending Engineer, V Circle, will report on the question of the continuance or otherwise of existing orders restricting the operations of the workshops in regard to work for other departments and for the general public. These orders have now been in force sufficiently long to enable their full effect to be properly determined. In submitting his report, the Superintending Engineer will enter fully into the matter and place Government in possession of the facts as they at present exist.

5. In paragraph 5 of G.O., No. 360 W., dated 9th February 1884, it was remarked that the repair of Government mathematical instruments, as carried out by Messrs. Orr and Sons of Madras, was not altogether satisfactory as to both quality and price ; and in their report recorded in G.O., No. 1494 W., dated 16th June 1884, the committee appointed to report on the workshops recommended the retention of the Mathematical instruments' shops. On a further representation from Messrs. Orr and Sons, the Government, in Proceedings, dated 10th March 1885, No. 559 W., directed that that firm should be intrusted with the repair of mathematical instruments so far as practicable ; and in paragraph 2 of that order the Superintending Engineer was directed to report in due course on the character of the work and its cost, as compared with that executed at the Public Works Workshops. The Superintending Engineer will now state his views on that point, in connection with the report called for in paragraph 4 of these proceedings.

6. The Government do not consider that any advantage would be gained by adopting the course proposed in paragraph 5 of the Deputy Examiner's report.

7. The attention of the General Superintendent will be directed to paragraphs 8 and 11 of that report, and he will note the Deputy Examiner's remarks therein for future guidance.

8. The submission of the returns mentioned by the Deputy Examiner in paragraph 13 of his report may be discontinued.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, V Circle.
„ Examiner, Public Works Accounts.

Exd. J. Henricus.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated September, 11th.

Recd. *Encl.*

G.O., 11th Sept. 1885, No. 2123 W.

SEPTEMBER.

Presidency Public Works Workshops

Orders on accounts of the — for 1884-85.

2123/3

Appendix to Proceedings of Government, No. 2123 W., dated 11th September 1885.

MEMORANDUM ON THE ANNUAL ACCOUNTS OF THE PUBLIC WORKS DEPARTMENT WORKSHOPS FOR 1884-85.

The assets of this concern on the 31st March 1885 were—

	Rs.	A.	P.
Block	83,106	14	1
Every building and its value according to the revaluation of 1883 is recorded in a book; the total works up to the above, less amount of depreciation written off each year; it would be well to show such depreciation as a deduction in the case of each building, so that the aggregate of all buildings will exactly equal the balance of block account.	71,427	14	7
Machinery and plant			
Same remarks as above, except that the book is incomplete and does not work up to the total. But there is evidently nothing in this account which should not be there.			
Outlay on unfinished jobs—			
(1) In the Mechanical department	16,793	1	9
(2) In the Instrument do.	7,179	4	10
According to S.O., No. 62 of 1885, introducing into the Public Works Code paragraphs 2283 A to E; all expenditure of this kind will now be debited in transfer monthly to the division which indented for the work, or at all events the transfer must be settled at the end of the official year, so that there will be no further annual appearance of this kind of asset.	34,430	12	2
Raw materials			
The General Superintendent stated that the balance was verified, and that all component items were found to be of good value.			
Bills recoverable—			
(1) From private parties	536	1	0
(2) From public departments	8,613	0	0

(1) This includes an item of Rs. 16 due from Manager, South Indian Railway Press, Madura, regarding which there is delay, also Rs. 11-6-0 due from Ramasawmy, a packer in the shops, who will be made to pay up.

(2) This includes due from—

	Rs.	A.	P.
Consulting Architect	6,371	4	0
Consulting Engineer for Railways ...	14	0	0
Executive Engineer, Nilgiri division ...	54	2	0
Collector of South Canara	47	5	0
District Judge, Kistna	117	1	0

These should all be collected.

Total, Assets ...	2,22,087	0	5

2. The liabilities on the 31st March 1885 were—

Due to suppliers of stores	1,657	0	0
This is merely the amount due for supplies in the previous month or so; nothing is long outstanding.			
Balance, Capital	2,20,430	0	5
This of course is what the concern was worth on the 31st March 1885, or what Government had in it. On the same date last year the figure was Rs. 2,00,549 (*vide* paragraph 5).			

3. The amount of outturn in 1884-85, stated by the General Superintendent as Rupees 1,42,322-7-1, is thus made up :—

				Rs.	A.	P.
Value of the work done for the Public Works Department ...				1,12,431	1	0
For other departments				26,434	8	0
	Rs.	A.	P.			
Mechanical department	1,10,070	8	0			
Instrument do.	28,795	1	0			
Value of work done for semi-public corporations and private parties				1,484	1	0
Raw materials sold—						
(1) To private parties				300	14	0
(2) By auction				1,271	15	1
Value of weighing-machines transferred to stores (*vide* paragraph 4 of G.O., No. 2798 W., of 8th November 1884) ...				400	0	0
Total ...				1,42,322	7	1
The outturn in 1883-84 was				1,19,505	13	7

4. The value of work done, as stated above, includes, however, the centages which were added, in order to try to avoid loss. Such centages amount for the year to Rs. 42,385, or 42·4 per cent. on the total outturn, or 43·26 per cent. on the actual outlay on jobs. As explained in paragraph 10 of the last audit memorandum, the restricted outturn of the shops costs the Public Works Department heavy charges for all work that is done for it. If, notwithstanding the orders restricting the operations of the shops, much work is still offered from other departments and the public, it may be that private enterprise would be as well protected by charging all such outside work much higher rates than Public Works Department work. It would, of course, cheapen Public Works Department work to serve other departments and the public if it could be done without competing with, or charging as low rates as, Messrs. Massey or Orr, or the like.

The outturn of 1880-81 was—	Rs.
Public Works Department jobs	88,053
Other departments	75,304
Semi-public jobs	22,939
Private	21,298
Raw materials sold	1,294
Total ..	2,98,888

5. The interest charged upon the capital invested in these shops should be calculated on the balance of the balance sheet of the previous year, or on the opening balance of the current year's capital account, namely, Rs. 2,00,549 (*vide* end of paragraph 2). It has been erroneously calculated on the total assets of each year's balance sheet, or as the *profit and loss* account rather clumsily says "on the opening balance as per statement, *plus* amount due for purchases."

6. The office of the General Superintendent of Workshops was last examined on the 5th and 6th September 1884 (*vide* G.O., No. 2798 W., dated 8th November 1884); the examination this year took from the 12th till the 14th August, Mr. Hugh O'Connell, the General Superintendent, and P. Cothundasawmy Pillay, the head clerk, being present.

7. The balance of the General Superintendent's drawing account on the 31st July 1885 was proved correct. The cash book was here and there audited. It is understood that the General Superintendent carefully audits this book every two or three days, and a thorough reaudit for the entire year was considered unnecessary.

8. The cash expenditure of the shops consists of—

1. Payment of permanent staff.
2. Do. of working staff.
3. Do. of extra working staff.
4. Do. of piece-workers.
5. Do. of bills for stores' purchases.
6. Do. of railway freights, steamer freights, &c.
7. Do. of office contingencies.

The laborers and others under 2 and 3 were found to have received regular payment and given good receipts, except the coolies, regarding which there is a nominal muster roll book for each department, and sometimes there is no certificate of payment or individual acknowledgment. It was arranged some time ago to debit a new head of account "Labor" with all payments of labor, that head being credited with the value of all labor employed, and this arrangement works well. There should be a comparison possible; indeed it should be made daily between the nominal muster-rolls of men employed on jobs and the *time sheets* of labor so employed. At present the time sheet omits *hours*, *rate* and *amount*; also the cash book in recording the payment of any labor should quote the nominal muster roll as voucher.

9. Payments for piece-work were audited and found in order, also other payments.

10. The raw materials of the shops are received from the Public Works Stores, from the Arsenal, from the Medical Stores, from the Gun Carriage Factory, from guaranteed railways, and

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from tradesmen as aforesaid; indents are recorded in books. There is a register of receipts, and a thorough examination of this part of the accounting (receipts of raw materials) found everything in excellent order.

11. As regards the issues, there is a slight imperfection in regard to *sales by auction*, which are not sufficiently particularised. Sales, for instance, in the last year Rs. 1,271-15-1, as per cash book receipts, could not be traced. The journal entry "cash debtor to sales" included all sales; the ledger account "sales" showing its creditor "raw materials" and its debtor "cash" in gross as for "sundries;" the account "raw materials" being also credited by debit to "sales" for "sundries." What is wanted is that when raw materials are sent to auction, a copy of the list to auctioneer should be entered in a book and the original value of each item stated; the amount realised will be then credited to "raw materials" and debited to "sales" when the account sale comes, and the actual proceeds will be credited to "sales" by debit to "cash" on receipt of the proceeds.

12. The journal was checked with the cash abstract and adjustment books, and also with the register of approved invoices. All these books are very neat. The register of workshops, jobs was also checked here and there, also the charges for steam (which are all debited to *general charges*) and the account of foundry.

13. The schedules A to F, referred to in paragraph 33 of the report of the stock committee, printed with G.O., No. 914 W., of 4th April 1881, have been regularly rendered to the Examiner's Public Works Accounts office with the accounts, the object being to prominently notice certain important points referred to in the above paragraph and numbered from I to IV.

Now, however, that the operations of the workshops are restricted to the needs of the Public Works Department (G.O., No. 1494 W., of 16th June 1884), the first point of the four no longer exists.

As regards the second point, the introduction of the heads "*Block*" and "*Machinery*" into the cash account current would apparently keep this prominently under notice.

Part III is effectually investigated at these inspections.

It appears that the order in part IV has been countermanded in paragraph 4 of G.O., No. 1884, of 2nd June 1881.

So that as there is really no longer any need of rendering these returns, if the preparation of the cash account current is altered as above, they may well be discontinued.

14. The office is in good order.

MADRAS,
19th August 1885.

(Signed) H. RAINIER,
Deputy Examiner, Public Works Accounts.

Appendix to Proceedings of Govt. No 2123 W dy 11th September 85.

MEMORANDUM ON THE ANNUAL ACCOUNTS OF THE P.W.D.WORKSHOPS FOR 1884-85.

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THE ASSETS OF THIS CONCERN ON THE 31ST.MARCH 1885 WERE:-

BLOCK.....RS. 83106-14- 1

EVERY BUILDING AND ITS VALUE ACCORDING TO THE REVALUATION OF 1883 IS RECORDED IN A BOOK; THE TOTAL WORKS UP TO THE ABOVE, LESS AMOUNT OF DEPRECIATION WRITTEN OFF EACH YEAR - IT WOULD BE WELL TO SHOW SUCH DEPRECIATION AS A DEDUCTION IN THE CASE OF EACH BUILDING - SO THAT THE AGGREGATE OF ALL BUILDINGS WILL EXACTLY EQUAL THE BALANCE OF BLOCK ACCOUNT.

MACHINERY AND PLANT.....RS. 71,427-14- 7

SAME REMARKS AS ABOVE, EXCEPT THAT THE BOOK IS INCOMPLETE AND DOES NOT WORK UP TO THE TOTAL. BUT THERE IS EVIDENTLY NOTHING IN THIS ACCOUNT WHICH SHOULD NOT BE THERE.

OUTLAY ON UNFINISHED JOBS:-

(1) IN THE MECHANICAL DEPARTMENT.....RS. 16793- 1- 9
(2) IN THE INSTRUMENT DEPARTMENT.....RS. 7,179- 4-10

ACCORDING TO STANDING ORDER NO.62 OF 1885, INTRODUCING INTO THE P.W.CODE, PARAS 2283 A TO E - ALL EXPENDITURE OF THIS KIND WILL NOW BE DEBITED IN TRANSFER MONTHLY TO THE DIVISION WHICH INDENTED FOR THE WORK, OR AT ALL EVENTS THE TRANSFER MUST BE SETTLED AT THE END OF THE OFFICIAL YEAR, SO THAT THERE WILL BE NO FURTHER ANNUAL APPEARANCE OF THIS KIND OF ASSET.

RAW MATERIALS.....RS. 34430-12- 2

THE GENERAL SUPERINTENDENT STATED THAT THE BALANCE WAS VERIFIED, AND THAT ALL COMPONENT ITEMS WERE FOUND TO BE OF GOOD VALUE.

BILLS RECOVERABLE

(1) FROM PRIVATE PARTIES.....RS. 536- 1- 0
(2) FROM PUBLIC DEPARTMENTS.....RS. 8613- 0- 0

(1)-THIS INCLUDES AN ITEM OF RS.16 DUE FROM

MANAGER S.I.RAILWAY PRESS, MADURA, REGARDING WHICH THERE IS DELAY, ALSO RS.11-6-0 DUE FROM RAMASAWMY, A PACKER IN THE SHOPS, WHO WILL BE MADE TO PAY UP.

(2) THIS INCLUDES DUE FROM:-

CONSULTING ARCHITECT.....RS.6371-4-0
CONSULTING ENGINEER FOR RAILWAYS.....RS. 14-0-0
EXECUTIVE ENGINEER NILGIRI DIVISION.....RS. 54-8-0
COLLECTOR OF SOUTH CANARA...RS. 47-5-0
DISTRICT JUDGE KISTNA.....RS. 117-1-0

THESE SHOULD ALL BE COLLECTED.

TOTAL ASSETS.....RS.223087- 0- 5

2. THE LIABILITIES ON THE 31ST.MARCH 1885 WERE:-

DUE TO SUPPLIERS OF STORES.....RS. 1,657- 0- 0

THIS IS MERELY THE AMOUNT DUE FOR SUPPLIES IN THE PREVIOUS MONTH OR SO, NOTHING IS LONG OUTSTANDING.

BALANCE, CAPITAL.....RS.220430- 0- 5

THIS OF COURSE IS WHAT THE CONCERN WAS WORTH ON THE 31ST.MARCH 1885 - OR WHAT GOVERNMENT HAD IN IT, ON THE SAME DATE LAST YEAR THE FIGURE WAS RS.200,549 (VIDE PARA 5).

3. THE AMOUNT OF OUTTURN IN 1884-85 STATED BY THE GENERAL SUPERINTENDENT AS RS.142,322-7-1 IS THUS MADE UP:-

VALUE OF THE WORK DONE FOR THE P.W.D....RS.112431- 1- 0
FOR OTHER DEPARTMENTS.....RS. 26434- 8- 0
MECHANICAL DEPARTMENT..RS.11007-8-0
INSTRUMENT DEPARTMENT..RS. 2879-1-0

VALUE OF WORK DONE FOR SEMI-PUBLIC CORPORATIONS, AND PRIVATE PARTIES.....RS. 1484- 1- 0

RAW MATERIALS SOLD:-
(1) TO PRIVATE PARTIES.....RS. 300-14- 0
(2) BY AUCTION.....RS. 1271-15- 1

VALUE OF WEIGHING MACHINES TRANSFERRED TO STORES VIDE PARA 4 OF G.O..NO. 2798 W OF 8TH.NOVEMBER 1884.....RS. 400- 0- 0

RS.142,322- 7- 1

THE OUTTURN IN 1883-84 WAS.....RS.119505-13- 7

4. THE VALUE OF WORK DONE, AS STATED ABOVE, INCLUDES HOWEVER THE CENTAGES WHICH WERE ADDED, IN ORDER TO TRY TO AVOID LOSS. SUCH CENTAGES AMOUNT FOR THE YEAR TO RS.42,385. OR 42·4 PER CENT ON THE TOTAL OUTTURN, OR 43·26 PER CENT ON THE ACTUAL OUTLAY ON JOBS. AS EXPLAINED IN PARA 10 OF THE LAST AUDIT MEMORANDUM THE RESTRICTED OUTTURN OF THE SHOPS COSTS THE P.W.DEPARTMENT HEAVY CHARGES FOR ALL WORK THAT IS DONE FOR IT. IF, NOTWITHSTANDING THE ORDERS RESTRICTING THE OPERATIONS OF THE SHOPS, MUCH WORK IS STILL OFFERED FROM OTHER DEPARTMENTS AND THE PUBLIC, IT MAY BE THAT PRIVATE ENTERPRISE WOULD BE AS WELL PROTECTED BY CHARGING ALL SUCH OUTSIDE WORK MUCH HIGHER RATES THAN P.W.DEPARTMENT WORK - IT WOULD OF COURSE CHEAPEN P.W.DEPARTMENT WORK TO SERVE OTHER DEPARTMENTS AND THE PUBLIC IF IT COULD BE DONE WITHOUT COMPETING WITH OR CHARGING AS LOW RATES AS MESSRS.MASSEY, OR ORR, OR THE LIKE.

THE OUTTURN OF 1880-81 WAS:-

P.W.DEPARTMENT JOBS...RS. 88053
OTHER DEPARTMENTS.....RS. 75304
SEMI-PUBLIC JOBS.....RS. 22,939
PRIVATE.....RS. 21298
RAW MATERIALS SOLD....RS. 1294

RS.208888

5. THE INTEREST CHARGED UPON THE CAPITAL INVESTED IN THESE SHOPS SHOULD BE CALCULATED ON THE BALANCE OF THE BALANCE SHEET OF THE PREVIOUS YEAR OR ON THE OPENING BALANCE OF THE CURRENT YEAR'S CAPITAL ACCOUNT NAMELY RS.200,549 (VIDE END OF PARA 2) - IT HAS BEEN ERRONEOUSLY CALCULATED ON THE TOTAL ASSETS OF EACH YEAR'S BALANCE SHEET, OR AS THE PROFIT AND LOSS ACCOUNT RATHER CLUMSILY SAYS 'ON THE OPENING BALANCE AS PER STATEMENT PLUS AMOUNT DUE FOR PURCHASES'.

6. THE OFFICE OF THE GENERAL SUPERINTENDENT OF WORKSHOPS WAS LAST EXAMINED ON THE 5TH. AND 6TH. SEPTEMBER 1884 (VIDE G.O. NO.2798 W. DATED 8TH. NOVEMBER 1884); THE EXAMINATION THIS YEAR TOOK FROM THE 12TH. TILL THE 14TH. AUGUST, MR. HUGH O'CONNELL THE GENERAL SUPERINTENDENT AND P. COTHUNDASAMY PILLAY THE HEAD CLERK, BEING PRESENT.

7. THE BALANCE OF THE GENERAL SUPERINTENDENT'S DRAWING ACCOUNT ON THE 31ST. JULY 1885 WAS PROVED CORRECT. THE CASH BOOK WAS HERE AND THERE AUDITED. IT IS UNDERSTOOD THAT THE GENERAL SUPERINTENDENT CAREFULLY AUDITS THIS BOOK EVERY TWO OR THREE DAYS, AND A THOROUGH RE-AUDIT FOR THE ENTIRE YEAR WAS CONSIDERED UNNECESSARY.

8. THE CASH EXPENDITURE OF THE SHOPS CONSISTS OF:-

1. PAYMENT OF PERMANENT STAFF.
2. ——DO—— WORKING STAFF.
3. ——DO—— EXTRA WORKING STAFF.
4. ——DO—— PIECE WORKERS.
5. ——DO—— BILLS FOR STORES PURCHASES.
6. ——DO—— RAILWAY FREIGHTS, STEAMER FREIGHTS ETC.
7. ——DO—— OFFICE CONTINGENCIES.

THE LABORERS AND OTHERS UNDER 2 AND 3 WERE FOUND TO HAVE RECEIVED REGULAR PAYMENT AND GIVEN GOOD RECEIPTS, EXCEPT THE COOLIES, REGARDING WHICH THERE IS A NOMINAL MUSTER ROLL BOOK FOR EACH DEPARTMENT AND SOMETIMES THERE IS NO CERTIFICATE OF PAYMENT OR INDIVIDUAL ACKNOWLEDGMENT. IT WAS ARRANGED SOME TIME AGO TO DEBIT A NEW HEAD OF ACCOUNT 'LABOR' WITH ALL PAYMENTS OF LABOR, THAT HEAD BEING CREDITED WITH THE VALUE OF ALL LABOR EMPLOYED, AND THIS ARRANGEMENT WORKS WELL. THERE SHOULD BE A COMPARISON POSSIBLE-INDEED IT SHOULD

Exp 3

BE MADE-DAILY-BETWEEN THE NOMINAL MUSTER ROLLS OF MEN EMPLOYED ON JOBS AND THE TIME SHEETS OF LABOR SO EMPLOYED - AT PRESENT THE TIME SHEET OMITS HOURS, RATE AND AMOUNT - ALSO THE CASH BOOK IN RECORDING THE PAYMENT OF ANY LABOR SHOULD QUOTE THE NOMINAL MUSTER ROLL AS VOUCHER. 2123/7

9. PAYMENTS FOR PIECEWORK WERE AUDITED AND FOUND IN ORDER, ALSO OTHER PAYMENTS.

10. THE RAW MATERIALS OF THE SHOPS ARE RECEIVED FROM THE P.W. STORES, FROM THE ARSENAL, FROM THE MEDICAL STORES, FROM THE GUN CARRIAGE FACTORY, FROM GUARANTEED RAILWAYS AND FROM TRADESMEN AS AFORESAID; INDENTS ARE RECORDED IN BOOKS - THERE IS A REGISTER OF RECEIPTS, AND A THOROUGH EXAMINATION OF THIS PART OF THE ACCOUNTING (RECEIPTS OF RAW MATERIALS) FOUND EVERY THING IN EXCELLENT ORDER.

11. AS REGARDS THE ISSUES THERE IS A SLIGHT IMPERFECTION IN REGARD TO SALES BY AUCTION, WHICH ARE NOT SUFFICIENTLY PARTICULARISED. SALES FOR INSTANCE IN THE LAST YEAR RS.1271-15-1 AS PER CASH BOOK RECEIPTS, COULD NOT BE TRACED. THE JOURNAL ENTRY 'CASH DEBTOR TO SALES' INCLUDED ALL SALES. THE LEDGER ACCOUNT 'SALES' SHEWING ITS CREDITOR 'RAW MATERIALS' AND ITS DEBTOR 'CASH' IN GROSS AS FOR 'SUNDRIES'. THE ACCOUNT 'RAW MATERIALS' BEING ALSO CREDITED BY DEBIT TO 'SALES' FOR 'SUNDRIES'. WHAT IS WANTED IS THAT WHEN RAW MATERIALS ARE SENT TO AUCTION, A COPY OF THE LIST TO AUCTIONEER, SHOULD BE ENTERED IN A BOOK AND THE ORIGINAL VALUE OF EACH ITEM STATED; THE AMOUNT REALISED WILL BE THEN CREDITED TO 'RAW

MATERIALS' AND DEBITED TO 'SALES' WHEN THE ACCOUNT SALE COMES, AND THE ACTUAL PROCEEDS WILL BE CREDITED TO 'SALES' BY DEBIT TO 'CASH', ON RECEIPT OF THE PROCEEDS.

12. THE JOURNAL WAS CHECKED WITH THE CASH ABSTRACT AND ADJUSTMENT BOOKS - AND ALSO WITH THE REGISTER OF APPROVED INVOICES. ALL THESE BOOKS ARE VERY NEAT. THE REGISTER OF WORKSHOPS JOBS WAS ALSO CHECKED HERE AND THERE, ALSO THE CHARGES FOR STEAM WHICH ARE ALL DEBITED TO GENERAL CHARGES; AND THE ACCOUNT OF FOUNDRY.

13. THE SCHEDULES A TO F REFERRED TO IN PARA 33 OF THE REPORT OF THE STOCK COMMITTEE PRINTED WITH G.O. NO.514 W. OF 4TH.APRIL 1881 HAVE BEEN REGULARLY RENDERED TO THE EXAMINER'S P.W.ACCOUNTS OFFICE WITH THE ACCOUNTS, THE OBJECT BEING TO PROMINENTLY NOTICE CERTAIN IMPORTANT POINTS REFERRED TO IN THE ABOVE PARA AND NUMBERED FROM I TO IV.

NOW HOWEVER THAT THE OPERATIONS OF THE WORKSHOPS ARE RESTRICTED TO THE NEEDS OF THE P.W.D. G.O. NO.1494 W. OF 16TH.JUNE 1884, THE FIRST POINT OF THE FOUR, NO LONGER EXISTS.

AS REGARDS THE SECOND POINT, THE INTRODUCTION OF THE HEADS 'BLOCK' AND 'MACHINERY' INTO THE CASH ACCOUNT CURRENT WOULD APPARENTLY KEEP THIS PROMINENTLY UNDER NOTICE.

PART III IS EFFECTUALLY INVESTIGATED AT THESE INSPECTIONS.

IT APPEARS THAT THE ORDER IN PART IV HAS BEEN COUNTER-MANDED IN PARA 6 OF G.O. NO.1884 OF 2ND.JUNE 1881.

SO THAT AS THERE IS REALLY NO LONGER ANY NEED OR RENDERING

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THESE RETURNS, IF THE PREPARATION OF THE CASH ACCOUNT CURRENT IS ALTERED AS ABOVE, THEY MAY WELL BE DISCONTINUED.

14. THE OFFICE IS IN GOOD ORDER.

2123/8.

H Rainier

MADRAS
19TH.AUGUST 1885.

DY.EXAMINER P.W.ACCOUNTS.

29/2415 Jot 22/9

[Form No. 1.]

N.B.—In any future communication on this subject, the number and date of this letter should be quoted.

No. 54 W. 2123/9

From

THE EXAMINER,
PUBLIC WORKS ACCOUNTS,
MADRAS.

To

The Secretary to Government,
Public Works Department.

Madras, 24th August 1885.

Sir,

I have the honor to forward for information and orders of Government letter No.656 W. dated 28th. July 1885 from the General Superintendent P. W. Workshops, with the Annual Accounts of the Shops for 1884-85, and note by Mr. Rainier Dy. Examiner.

2. The main points to be noticed are as follows, comparing the years 1883-84 and 1884-85.

	1883-84	1884-85.
Capital.....Rs.	1,80,582	2,02,003
Financial & General Liabilities. Rs.	37,999	41,397
Outturn.....Rs.	1,19,500	1,42,322
Establishment charges.....Rs.	18,823	20,331
Average centage added to the actual cost of outturn.....	48·3	42·4
Loss.....Rs.	1,888	7,648
Percentage of Financial and General Liabilities on Capital.....	21·04	20·49
Percentage of centage charges on actual cost of outturn on Capital.....	21·50	20·98

The value of outturn for this Department was Rs. 1,13,431, which includes an average of 43·4 per cent over actuals,

paid for by Divisions, and, in addition, Government meets the loss of Rs.7,648.

3. There is no object in the adopting the course proposed in para 5 of the Dy. Examiner's report, for it would merely tranfer the Interest charge from a current to a subsequent year's Account, and it is not worthwhile revising practice for so small a result.

4. The attention of the General Superintendent is required to the points noted in paras 8 and 11.

5. There is no objection to the discontinuance of the returns mentioned in para 13.

I have the honor to be,

Sir,

Your Most Obedient Servant.

D.C. Evans

Examiner P.W. Accounts.

2123/10

No 1574 C. 16.9.81.
G.C. No 2503 W. 6.9.83
" " 2054 W. 30.8.80
" " 711 W. 18.3.82.
No 2218. 10.6.82.
P.C. No 1763 W. 11.7.82.
G.C. No 2664 W. 12.8.82
" " 2488 W. 25.9.82
" " 360 W. 9.2.80
" " 1966 W. 11.8.84
P.C. No 25-27 W. 14.10.84
G.C. No 2798 W. 8.11.84
" " 1384 W. 2.6.81
" " 914 W. 4.4.81.

(1) Rch 7454

From,

The Examiner P.W. Accounts,

Madras.

To,

The Secretary to Government,

P.W. Department.

No. 54 W

Dated 24th August 1885.

Recd. 25 " ——

Enclos. 4

Annual Accounts of the P.W. Stores for 1884-85. Forwarded and a Note by the Dy. Examiner for the orders of Govt.

P.W. 1378

PRESIDENCY PUBLIC WORKS WORKSHOPS,

Madras, 28th July 1885.

No. 656 W.

From

THE GENERAL SUPERINTENDENT,

PUBLIC WORKS WORKSHOPS,

To

THE Examiner of

P. W. Accounts

Madras

Enclosures.

SIR,

I have the honor to forward for submission to Government the accounts of the Presidency Public Works Workshops for 1884-85.

2. During the year the Workshops became liable to Government.

	Rs. A. P.
(1) To cash drawn from Treasury	115000 . .
(2) To value of stores received without payment	53998 . 1
(3) To Interest on Capital	8080 1 6
(4) To Pensions and Leave allowances	2221 15 9
	181298 1 4

3. On account of this amount the following payments were made.

(1) Payments into Treasury	11010 12 1
(2) Approved Invoices	142750 6 .
(3) Balance of interest due to Government	7648 2 .
	161417 4 1
Leaving for Increase to Capital	19880 13 3

4. The gross Profits amounted to 42824 15 6
against which charges aggregating 50033 1 6
have been debited, leaving a balance of 7648 2 .
interest due to Government.

5. The Opening and closing balances of the Capital accounts as noted in the following table show an increase to Capital of Rupees 19,880 – 13 – 3.

	Capital on 31st March 1885			Capital on 31st March 1884			Increase			Decrease		
Block	83106	14	1	85677	3	1	..	..	..	2570	5	..
Machinery and Plant	71427	14	7	59581	12	1	11846	2	6	..	..	..
Mechanical Department	16793	1	9	9533	12	11	7259	4	10	..	..	..
Instrument Department	7179	4	10	6950	12	..	228	8	10	..	..	..
Raw Materials	34430	12	2	26609	2	9	7821	9	5	..	..	..
Sales	536	1	..	3142	4	..	..	..	..	2606	3	..
Public Department	8613	..	..	10107	8	..	..	..	..	1494	8	..
Manufacture	..	..	..	400	..	..	..	..	..	400	..	..
	222087	..	6	202002	6	10	27155	9	7	7071	..	..
Deduct Bills payable	1657	..	..	1453	3	8	1657	..	..	1453	3	8
	220430	..	6	200548	3	2	25498	9	7	5617	12	4
	19880	13	3							19880	13	3

6. The results of the working for the year under review as compared with those of three previous years are as follows:-

	1881-82	1882-83	1883-84	1884-85
Outturn	234,963 3 4	189936 10 4	119505 13 7	142322 7 1
Net Profit	.. .. ..	.. .. ..	.. .. ..	.. .. ..
Net loss on interest employed	6883 1 2	2928 3 7	1895 13 4	7648 2 ..

7. The loss in the Mechanical Department was owing principally to the high rates paid for Teak timbers while the estimated rates were charged for and recovered for wood works supplied.

I have only to reiterate the opinion of Captain Baddeley R.E. the late General Superintendent that the works cannot be economically supervised unless it is thought expedient to cancel the restriction contained in G.O. No. 2062 M dated 12th April 1882 by which the Workshop is almost entirely closed to every Department of Government except the P.W.D. and I fear the present suspension of important works in the P.W.D will greatly tell on the Workshops I would therefore submit the expediency of removing the restrictions and keeping the shops open to all Departments of the Service.

I have the honor to be,
Sir,
Your Most Obedt. Servt.

Stk. O'Connell
General Superintendent P.W. Workshops

EXAMINER
No. 4135
29 JUL 1885
ENCLOSURES 2
P. W. ACCOUNTS.

Presidency P. W. Workshops.

From,

THE GENERAL SUPERINTENDENT,
P. W. WORKSHOPS,
Madras,

To

The Examiner of
P W Accounts
Madras.

No. 656 W. R/Rec'd/7454/85.

Dated 28th July 1885.
Despd.
Recd.

No. OF ENCLOSURES. 2

Subject.

Forwards for submission to Government, the Workshops Accts for the official year 1884-85. with certain remarks

7454

S.A.W. 2123/13

Please see W's question of 7-9-85 & my reply there to, & communicate to R.K.

I don't think the head of the record branch should leave it to be inferred that he is unable to judge what papers are necessary for the disposal of a current, & what are not.

Cir
7.9.85.

Please call for the Record Dept.

R.K.

Bv-7883-6A

241 - 6
43 - 5
40 - 2
39 - 10
38 - 3
36 - 10

C. a. w.

2123
14

Herewith
the papers called
for. I am sorry
I was not aware
of them - but they
were not put up
by Records. The
draft order Sent
up will require
modifications.

H.B.

4.9.5.

2123/15

Please put up the papers referred to. It is a fishy story were not put up in the first instance. I, of course, did not know the correct legal steps that should have taken place.

RB

4/9/86

Law

Complete file herewith and I have known that these papers would have been asked for & should have been before last month's meeting and am sorry

a large correspondence that has taken place on the subject & it is hard to think which particular papers will be wanted & to pack up everything would make the file very bulky — S.P. 4-9-85

A.W.

2123

In relation to W
the draft on the annual
Report of the N.W. Workshops,
I felt certain that he
would want to see the
correspondence with the
Messrs Orr & Sons,
on the subject of
giving them a further
trial with a pneumatic
instrument work —

I remember
the papers distinctly
& tried to have them
traced here, but they
are apparently among
our Bufs records at
Madras.

You will see how
that W wants the
papers before passing
the draft order —

Kindly have them
sent up —

Return the heavy
file here — Cs

4/14/85

G.O. 1494-H of 16-6-14
- 3604-H of 9-2-14

The omission to put up
Fo: 1 10-3-85 showed
great carelessness -
Who is responsible?

7-4-85

To W

The record Supt at
Meerut is responsible.
Please see his explanation
of 4-9-85, countalled D.P.
(O. Parsons).

In returning the
file to Madras, it was
my intention to inform
S.A.W. that a highly
paid record clerk such
as we have, ought to be
able to discriminate as
to what papers are necessary
for the historical file
& what are not.

A.

EXAMINER

D.W.

2123/18

Before proceeding to draft orders on the annual accts of the P.W. Works for 1884/85, it seems necessary that some decision should be come to as to whether the orders restricting the working of the Workshops are to be continued in their Entirety, partially suspended, or cancelled. Genl. Supt strongly urges the removal of the restrictions. Please favor me with orders on this point

FB.

26/8/85.

W

Please see Pros. 3.10.3.55 & 5559 W, now obtained from Works.

The Works Bill has been put up the Judges, upon transmitting the Bills to D.W. for special or D.W. pertinently allotted to the matter.

Para 5 of the Progs has been altered in pencil for approval by Superior

I think that S.E. No should now be called on — To report on the proposed withdrawal or modification of the restriction order in regard to work for other Departments & for general public —

There is another point — not now alluded to, but on which information is desirable. In view to the closing of the Instrument Branch of the workshops, work was I gave ago given to hand Wks to test their capabilities & prices, but the result was not satisfactory — see para 5 of G.O. No 160 W of 9th July 84. A further trial of hand Wks work was, if I remember aright, to be made — though I cannot trace the order to this effect. At any rate it would be well to ascertain what mathematical instrument work has since been done by hand Wks & what is said of whether such work has been efficiently & economically done.

OS
27.8.85

2123
19

List of Stores remaining in the L.W. Workshops on the 31st March 1885

ENCLOSURE
413
29 JUL 85
EXAMINER P.W. OFFICE

2123
2D

Description of articles		No or Quantity	Amount		
Acid Hydrochloric	lbs	22½	21	1	6
Alcohol	B	32½	60	15	0
Asbestos packing 1/16	lbs	4-4	6	1	9
" " 1/8	"	3-0	4	5	0
" " 3/16	"	14-0	20	2	0
Augers Screw 1/4	No	12	7	8	0
" " 3/8	"	1	0	10	0
" " 7/8	"	1	0	4	6
" " 1	"	7	7	0	0
" " 1 1/8	"	4	4	10	0
" " 1 1/4	"	10	12	15	6
" " 1 3/8	"	9	13	5	9
" " 1 1/2	"	6	9	13	6
Agate caps, Small brass, mounted	"	34	19	2	0
Beams for Money Scales country 14"	No	1	1	0	0
Bell	"	1	253	0	0
Braces, ratchet with 12 bits	Set	2	82	0	0
Bits for braces carpenters 24 to a set	"	4	8	0	0
Bolts finch brass 4"	No	2	0	5	0
" " " 6"	"	3	"	14	"
			533	11	6

			533	11	6
Brads iron 1"	cwt	1½	"	-	5
" " 1¼"	lbs	2-8	"	11	3
" " 1½"	"	" -6¾	"	1	10
Borax	"	5-3¾	1	8	10
Broom	bundles	8	"	-	8
Burners small for signalling lamp	No.	2	7	"	"
Box wood for barometer	lb	14-4	4	7	3
Bell metal	"	158-4	138	7	6
Brass sheet 1/8"	"	84-10	42	5	"
" " 3/16"	"	103-9¼	51	12	7
" " ¼"	"	54-5¼	27	2	10
" " G. No. 14	"	114-15¾	57	7	10
" " G. No. 16	"	7-8½	3	12	3
" " G No. 20	"	38-10	19	5	"
" Rod ½"	"	4-14	2	11	10
" " 7/16"	"	1-5¼	"	11	11
" " 1"	"	" -14½	"	8	1
" " 1⅛"	"	26-15	15	2	5
" " 1¼"	"	23-5½	13	2	1
" " 1⅜"	"	88-11	49	14	2
" Old	"	35	9	4	9
Bund. W.I. Galvanized 1¼"	No.	1	"	10	"
Bricks fire. Arch	No.	100	6	4	"
Chisels firmer ⅛"	"	11	1	6	"
" " 3/16"	"	10	1	4	10
" " 3/8"	"	10	1	7	4
			990	6	2

			990	6	2
Chisels firmer ½"	No.	1	"	2	5
" " 5/8"	"	6	1	"	"
" " ¾"	"	1	"	2	8
" " 1¼"	"	17	4	12	6
" " 1⅜"	"	7	2	4	2
" " 2"	"	36	18	"	"
Cocks brass ½"	"	7	28	"	"
" " ¾"	"	8	40	"	"
" " 1"	"	7	84	"	"
" " Discharge 1¼"	"	3	30	"	"
" " Stand with flange 1"	"	3	35	10	"
" " " " 1¼"	"	4	67	8	"
" " " " 1½"	"	1	23	2	"
" " " " 1¾"	"	2	56	4	"
" Gunmetal, stop 1"	"	3	9	36	"
Calipers 7"	"	4	8	4	"
Canvass	sqft	23-10	8	9	"
Crucible No 50	No.	53	41	15	4
" No 25	"	48	300	"	"
" Small	"	5	25	"	"
Cloth emery, smooth & rough	"	67	3	7	10
" course	yard	" -2-7½	"	3	1
" waste	lb	12-6	1	11	10
Coal	"	45022	522	9	2
Coke	"	51532	966	3	7
Chimneys large	No.	102	57	6	"
Couplings brass 2½"	Set	4	104	"	"
			3456	9	9

2123/21

				3456	9 9
Chalk	lbs	"	2½	"	7.
Cast iron, old	Lon	33-14-2-7		843	3 3
Casting brass	lb	186	4⅜	116	6 8
Copper sheet 1/16"	"	7	14½	3	15 3
" " 1/8"	"	97	9	48	12 6
" " 3/16"	"	70	8	35	4 "
" " S. № 18.	"	23	7	11	11 6
" Rod ¾"	"	15	12	8	13 9
" " 1"	"	40	6	22	11 4
" " 1¼"	"	9	"	5	1 "
" old	"	136	4	42	9 3
" Strap	"	26	"	13	" "
Clamps iron	No	9.		"	9 "
Color box tin small	"	1.		10	" "
Chlorodyne	B	48.		4	7 9
Dilute sulphuric	oz	8.		2	" "
Electroplated parabolic Reflectors	№	4		240	" "
Elbow square galvanized 1¼"	"	1		1	" "
Firewood	Lon	1-6-1-26		12	9 3
French polish	B.	2⅞		2	1 8
Files ½ round S 6"	№	2		"	6 "
" flat B.S. 16"	"	1		1	8 "
" " B.S. 12"	"	1		1	2 "
" " B.S. 6"	"	1		"	6 "
" " S 10"	"	1		"	12 "
				4885	" 6

				4885	" 6
File flat S E D Smooth 4½"	№	6.		3	" "
" " S E Smooth 4"	"	8		4	" "
" 3 Square D Smooth 12"	"	4.		2	" "
Glass, plate 12" × 10"	"	11		13	12 "
" Magnifying	"	4		8	" "
" Vessels for mixing acid	"	1		2	8 "
" Cutters, steel	"	2		2	5 "
Glaziers, Diamond	"	1.		3	" "
Gouges, turning 1/8"	"	12		1	12 "
" " ¼"	"	10		1	7 4
" " ⅜"	"	5		"	11 8
" " ½"	"	2		"	4 8
" " 5/8"	"	7		1	" 4
" " ¾"	"	8		1	8 "
" " ⅞"	"	10		2	5 6
" " 1"	"	9		2	10 9
" " 1¼"	"	9		3	3 "
" " 1½"	"	12		5	8 "
Gate cast Iron 7½" long 5½" broad	"	8		21	" "
Glass tubes for water Gauge 18" × ⅝"	"	17		17	" "
" " " " 12" × ⅝"	"	7		6	9 "
" Cistern for barometer Standard 3" × 1½"	№	2		5	" "
" Circles 5¾" diameter		6		9	" "
" " 4¾" "	"	29		29	" "
" Pattern for Signalling lamp		113		2	5 8
				5033	15 5

2123/22

				5033	15 5
Glass B pattern for signalling lamps		63	1	15	6
" 6 " " "	lbs	41	5	12	3
" tube with Spirit 6"	"	1	1	"	"
Goglets	"	6		1	"
Glue	lbs	1-14½		10	9
Germansilver sheet ⅛"	"	"-⅞		1	5
" " " 3/16"	"	11-9/16	23	9	7
Green baize	sq ft	23-87	6	14	1
Hammers adze eye	lbs	3	"	8	10 9
" riveting 1 lb	"	1	"	8	"
Hooks bill	"	4	6	"	"
Hydrometer with brass floats		1	50	13	"
Hammer claw		9	14	13	"
Handles brass common 3"	"	6	1	8	"
" " for Cask Chest	"	3	3	12	"
Hinges brass 1¾"	"	2	"	2	8
Hooks and eyes brass 1"	"	21	1	8	6
" " " 1¼"	"	34	3	14	4
" " " 1½"	"	1	"	1	10
" " for catgut 3/16"	"	35	21	14	"
Hide pumps	lbs	46-6	46	6	"
" country	"	2-1¾	1	9	3
" English	"	7-4	14	8	"
Hemp ball	lbs	5	3	12	"
Husks paddy	P	3½	"	3	7
Hose suction leather	sq ft	22	47	12	6

5301 13 7

			5301	13	7
Iron for plane jack 2¼"	lbs	10	6	4	"
Ice Machine	"	1	20	"	"
Iron flat 1¼" × ⅜"	lbs	16-12	1	"	9
" " 1¾" × ⅜"	"	12-"	"	12	"
" " 1¼" × ¼"	"	26-"	1	10	"
" " 3½" × ½"	"	1476	92	4	"
" " 3¼" × ½"	"	1873	117	1	"
" " 5" × 1"	"	445	27	13	"
" " Swedish 1¼" × ¾"	"	2274½	284	5	"
" Round ¼"	"	155	9	11	"
" " ⅜"	"	2205½	137	13	6
" " ½"	"	2017½	126	1	6
" " ¾"	"	1725	107	13	"
" " ⅞"	"	1596	99	12	"
" " 1"	"	2023	126	7	"
" " 1⅛"	"	2311	144	7	"
" " 1¼"	"	8130	508	2	"
" " 2"	"	26	1	10	"
" " ⅜"	"	2285	142	13	"
" " 2¼"	"	129	8	1	"
" " 2½"	"	50	3	2	"
" " Swedish ¾"	"	4½	"	9	"
" " " 3"	"	40.	5	"	"
" Square ⅞"	"	7	"	7	"
" " ¾"	"	202	12	10	"
" " ⅝"	"	3	"	3	"
" " 2"	"	400	25	"	"
" " 2½"	"	85	5	5	"
			7317	14	4

2123/23

			7317	14	4
Iron Square 5"	℔	160	10	0	
" " 1¼"	"	83	5	3	
" " Swedish 1"	"	2071	258	14	
" I 4"×2"×⅜"	"	532	33	4	
" Sheet 4'×2' of 11 ℔ each	"	156	9	12	
" " 9'×2½'×⅜"	"	693	43	5	
" " 12'×2'×3/16"	"	83	5	3	
" " 14'×2½'×¼"	"	4	"	4	
" " of sizes	"	39	2	7	
" " 12'×3'×⅜"	"	741	46	5	
" " 12'×2½'×¼"	"	1403	87	11	
" " 10'×4'×¼"	"	1740	108	12	
" " 6'×2½'×3/16"	"	526	32	14	
" " 6'×2½'×¼"	"	1450	90	10	
" " 12'×2'×½"	"	326	20	6	
" Angle 2½"×2½"×½"	"	660	41	4	
" " 3"×⅜"	"	191	11	15	
" " 3½"×½"	"	370	23	2	
" " 4"×½"	"	936	58	8	
" " 2¼"×⅜"	"	877	54	13	
" Hoop 1"×1/16"	"	4	"	3	4
" Pig English	Tons	1-7-2-0	82	8	
" " Country	"	4-18-2-7	123	3	3
" Old	℔	1609	17	15	3
Keys iron	No	24	2	4	
Knees iron	"	12	36	0	
			8524	8	2

			8524	8	2
Lamp stout pattern	No	3	63	0	
Levelling instrument unfinished	"	1	1031	0	1
Legs, garden seat 6.J pattern	"	2	12	0	
Lenses plain ½" dia 3/4" FL	"	112	87	8	
" " 3/8" " "	"	50	39	1	0
" " 5" " "	"	1	4	0	
" " 6" " "	"	2	9	0	
Locks pad brass P.W.W. 3"	"	2	30	0	
" " " 2½"	"	3	45	0	
" brass. admiral Chubb's 2½"	"	6	30	15	
" " " " 3"	"	6	32	4	
" " " " 3½"	"	2	32	0	
" " " " 2"	"	59	147	8	
" " " 2½"	"	19	52	4	
" " " 3"	"	8	24	0	
" " box 1½"	"	27	21	1	6
" " " 2"	"	14	11	10	8
" " " 2½"	"	64	56	0	
" " " 3"	"	26	65	0	
" " Chubbs patent 2½"	"	7	37	10	
" " " 3"	"	4	22	12	
" " " 3½"	"	1	15	8	
" " draw 3"	"	33	185	10	
" " Chubb 2½"	"	6	32	4	
" " " 3"	"	5	28	2	0
" " desk 3'	"	1	2	3	
" " of an iron pillar letter box without key	"	1	1	0	
			10642	13	5

2/23
24

			10642	13	5
Locks brass unfinished for pillar letter box without key	No	15	45	"	"
Leather belts double 3"	ft	55	61	14	"
Lead pig	lbs	104-11½	6	8	8
" Sheet 1/16"	"	3 —	"	6	"
Measures gallon, imperial	Set.	2	11	4	"
" " glass 10 oz	No	1	2	14	"
" " " 2½" Dia for rain gauge	"	5	16	4	"
Mats packing	"	6	"	7	"
Nails English 1"	lb	"	4	"	11
" " 2½"	"	"	8	"	15
" " 2"	"	2	8	"	7 3
" " ¾"	"	"	1½	"	" 3
Nuts Hexagon ½"	"	31	7	7	13 9
" " ⅝"	"	40	4	10	1 "
" " ⅞"	"	154	4	38	9 "
" " 1"	"	7	2	1	12 6
" " 1⅛"	No	139		34	12 "
" " 1¼"	"	201		50	4 "
" Iron not tapped and incomplete	lb	51		3	3 4
" Square 1"	No	20		1	14 "
Oil cocoanut	B	25½		7	3 11
Oil Lamp	"	18½		4	3 10
Oil Linseed	"	8½		3	13 4
				110	11 5

			110	11	5
Oil of peppermint	oz	2	"	8	"
" of Aniseed	"	2	"	8	"
" Neat foot	B	6	3	"	"
Pens drawing large	No	1	"	7	"
Pincers 6"	"	2	1	10	"
" 10"	"	4	3	4	"
Pinion wire steel of sizes	ft	9-6	13	5	9
" " brass of sizes	"	" 4	"	4	"
Pliers flat ½"	No	4		4	"
Pans copper with chains	"	2	4	"	"
Pump double unfinished	"	3	600	"	"
Pens drawing brass	"	63	7	14	"
Pans brass for scales	"	8	4	"	"
Paper sand rough & smooth	"	2½	"	7	"
Paint Silicate No 2848	lb	2	"	7	2 "
" Red magnetic	"	5-12	1	15	7
" Carsons oake	"	5-8	1	1	10
" Anticorisons Chocolate	"	23 —	2	15	11
" Carson Blue	"	28 —	8	4	"
" enamel	gal	4 21/32	51	3	6
Powder graphite	lb	701-8	175	6	"
" Paris	"	3-3¾	9	11	3
" Emery rough & smooth	"	12-13½	8	2	1
" Red lead	"	4-12	"	2	3
Prisms	No	12	22	8	"
Pitch	lb	12½	"	12	6
Phenyle	B	12	4	12	" "
			11957	8	3

2123/25

			11957	8	3
Rack brass ¼"	ft	21-6	34	15	"
" " ⅜"	"	27-1½	64	8	
" " length of 6"	pair	46	74	12	"
" " of pieces	ft	12	19	8	"
Rings divided	"	1	9	"	
Rules folding 2', 2 folds	"	5	11	11	"
" 1', 2 folds	"	6	5	2	"
Rope cotton	lbs	5	2	5	6
Rubber Indian vulcanized ½"	"	26-9½	76	9	8
" " " ⅝"	"	9	26	"	3
" " " ¾"	"	16	46	2	8
" " " 1"	"	145	41	9	3
Rosin	"	5-4½	"	1	3
Saw band 26"	No	1	3	8	"
" " 28"	"	5	20	"	"
" " 30"	"	4	8	15	"
" circular 36"	"	1	5	"	"
" pit 7 ft	"	3	21	"	"
Salters Spring balance to weigh 80 lbs	"	1	9	8	"
Scales brass to weigh small coins	"	1	7	"	"
" " " 100 — ½ Rupee	"	1	20	"	"
" " " 100 — 2 Annas	"	1	20	"	"
Screw jack Halleys Patent 4 Ton	"	3	96	"	"
" " " Small	"	1	10	"	"
Spades	"	4	3	12	"
Shafting Augers	"	15	72	5	2
			134407	"	

			13440	7	"
Stone grinding 5'-10" × 8"	No	1	110	"	"
Steam guage 100 lbs	"	1	30	"	"
Screw Iron ⅜"	lbs	27-3	"	6	10
" " " ½"	"	86-4	2	4	"
" " " ¾"	"	86-4	3	9	6
" " " 1"	"	9-10	"	9	10
" " " 1¼"	"	24	"	1	8
" " " 1½"	"	27-3	2	2	1
" " " 2"	"	13-1	1	"	4
" " " 2¼"	"	2	"	2	6
" " " 3"	"	"	4	"	6
" " " 4"	"	"	5	"	9
" Brass ¼"	"	9-4	"	7	"
" " " ⅜"	"	48	"	2	4
" " " ½"	"	45-11	3	9	4
" " " ⅝"	"	29-10	2	7	9
" " " ¾"	"	25-3	2	5	10
" " " 1"	"	20-5	3	8	1
" " " 1¼"	"	47-8	10	6	10
" " " 1½"	"	11-4	2	7	8
" " " 2"	"	17	"	4	4
" " " 2½"	"	6-6	1	10	"
Spirit bubble 1½"	No	5	2	8	"
" " " 1⅝"	"	8	4	8	"
" " " 1¾"	"	2	1	4	"
" " " 2"	"	44	30	4	"
" " " 2½"	"	79	59	4	"
" " " 2¾"	"	25	20	5	"
			13743	10	10

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			13743	11 10
Spirit bubble 3"	№	79	197	8 "
" " 3¼"	"	22	55	" "
" " 3½"	"	2	5	" "
" " 3¾"	"	7	17	8 "
" " 4"	"	12	30	" "
" " 5"	"	9	24	12 "
" " 5¼"	"	4	11	" "
" " 5½"	"	19	52	4 "
" " 6"	"	17	51	" "
" " 7"	"	40	140	" "
" " 7½"	"	2	7	" "
" " 7¾"	"	4	14	" "
" " 8"	"	70	288	12 "
" " 8½	"	62	255	12 "
" " 9"	"	1	4	8 "
" " Common plain 2"	"	6	2	4 "
" " " " 2½"	"	7	3	1 "
" " " " 3"	"	9	4	8 "
" " " " 3½"	"	8	4	8 "
" " " " 4"	"	7	4	6 "
" " Ground & divided 2½"	"	20	45	" "
" " " " 3"	"	17	40	6 "
" " " " 3½"	"	17	42	8 "
" " " " 4"	"	15	45	" "
" " " " 4½"	"	6	21	" "
" " " " 5"	"	7	28	" "
Spirit glass tube of sizes	"	8	2	8 "
" level glass	"	43	43	" "
Soap windsor	C	20	1	9 "

			15785	4 10
Soap country	Bar	2	" 9	6
Salamonide	lb	5-10	1	6 6
Solder for iron & copper	"	11-15½	3	11 9
Shutters for C. lamp	№	4	40	" "
Steel rod ⅛"	lb	22-2½	5	8 7
" " 5/16"	"	" -15	"	3 9
" " ¼"	"	2-9¾	"	10 5
" " 5/8"	"	9- "		2 4 "
" " 2¼"	"	242-		60 8 "
" Square ¼"	"	2-10¾	"	10 6
" " 3/8"	"	" -7	"	1 9
" " ¾"	"	16- "		4 " "
" Sheet 1/16"	"	13-5½	3	5 4
" Slab 4½" x 4½"	"	173		43 4 "
Spirit Methylated	G	8		7 " "
Skin Schamois	№	½	"	8 "
Screw plate with taps	"	1.		6 7 "
Silver	Sola	18¾		18 12 "
Tape measuring 50 ft without case	Ea	11		36 1 6
" " 66 ft " "	"	25		125 " "
" " 25 ft " "	"	12		38 " "
Turn Screw 18"	№	1		1 2 "
Thermometer	"	1		2 8 "
Tracing glass frame only	"	1.		34 8 "
Tacks iron ¼"	lbs	13-4		4 2 3
" " ½"	"	" -10	"	3 1
" " 3/8"	"	8-1		2 8 4
" " ¾"	"	1-15	"	9 8
			15628	14 9

2123
27

15628 14 9

Jacks iron 1"	℔	1-11	. 5	1
" " 1¼"		1-12	. 8	9
" Copper ¾"	"	5-7	4	1 3
Tanks iron	℔	5	121	14 .
Tubes Indian rubber 2⅜" inside diameter	℔	2	18	1 .
Tin block	℔	2-12½	1	11 .
Thread lamp	"	-6½	.	3 9
Tin pot common	℔	2	.	2 .
Turpentine	℔	2 7/16	1	. .
Tallow	℔	9-6	2	3 11
Tubes copper 1½" × ⅛"	"	135 -	84	6 .
" " 2" × ⅛"	"	62 -	38	12 .
" " 3"	"	130 -	81	4 .
" brass ⅛"	"	-4	.	2 3
" " ¾"	"	-13	.	7 3
" " ¾"	"	3-12½	2	1 11
" " 1"	"	9-11	5	7 2
" " 1⅛"	"	22-14	12	13 10
" " 1¼"	"	18-7¼	10	5 11
" " 1⅜"	"	25-12	14	7 9
" " 1½"	"	30-4¼	17	. 3
" " 1¾"	"	9-4	5	3 3
" " 1⅞"	"	91-12	51	9 9
" " 2"	"	60-6½	33	15 7
" " 2¼"	"	120 -	67	8 .
" " 2½"	"	14-12¾	8	5 1
" " in & outside Frames 1"	"	9 -	6	12 .
" " " 1⅜"	"	1-8	1	2 .
" " " 1½"	"	2-12	2	1 .
			16223	1 6

16223 1 6

Tubes brass in & outside diams 1⅝"	℔	3 -	2	4 "
" " 4" × 1¾"	ft	67-8	245	15 11
" " 12" × 1½"	"	60 -	259	11 .
" " 10" × 1"	"	30 -	56	4 "
" " to slide inside 1¾"	"	40 -	156	4 .
" " " 1½"	"	40 -	173	2 .
" " " 1"	"	35 -	39	6 .
" W. I. Boiler 2¼"	№	9	10	13 3
" " 3"	ft	71¼	46	" 3
" Monty Metal for boiler	№	15	105	" .
" Iron for boiler 6-10" × ⅜"	"	5	25	" .
" W. I. 4"	ft	21-8	10	13 4
Timber Karrai	cft	2-8- "	5	11 4
" teak planks & sidecuttings	cft	4810-1-6	14731	" "
" Red Cedar logs	"	238-4-4	327	11 11
" " planks of sizes	"	32-3-11	48	7 10
" White Cedar logs	"	279-5-4	454	1 7
" " planks of sizes	"	18-11-6	33	2 10
" Peddock wood	"	40-2-9	52	12 10
" Deal planks 1"	Sqft	4012 - "	626	14 .
" Mango planks ¾"	"	3050 - "	555	15 10
" Ebony	℔	66 -	10	8 "
Twine Europe	"	6-11½	4	9 10
Varnish Japan	℔	1 7/16	1	12 9
" Copaul	"	¾	"	14 1
" Japan best black	"	3	4	2 .
			34217	8 1

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				34217	8	1
Vices pin 2½"	№	3		6	3	-
" " 3"	"	2		6	6	-
" Standing large 100 ℔	"	1		19	11	-
Velvet blue	yrs	¾		-	6	-
Weights brass ¼ to 50 Tolas	℔	1		8	-	-
" " ¼ to 10 Tolas	"	1		1	14	-
" " ½ to 5 "	"	2		2	-	-
" C.I. ¼ ℔	№	6		1	8	-
Wax bees	℔	3-8½		2	11	3
Wire steel G № 8	"	20	-	2	4	8
" " ½"	"	-	4	-	-	6
" iron G. № 8	"	79-12		12	7	4
" Copper 1/16"	"	1-1½		-	12	10
" " ⅛"	"	13-12		10	1	4
" " 3/16"	"	9-14½		7	4	1
" " ¼"	"	8-½		5	14	4
" " ⅜"	"	1-5		-	15	5
" " G № 7	"	4-8		3	4	10
" " 3/32"	"	2-		1	7	6
" brass 1/16"	"	3-5¾		2	3	3
" " ⅛"	"	2-6		1	8	4
" " ¼"	"	14-7¾		9	8	-
" " ⅜"	"	12-5		8	1	2
" " G № 13	"	1-15½		1	4	8
" cloth brass perforated 30 holes to an inch	Rep.	30		41	4	-
" Germansilver 1/16"	℔	-5⅜		-	12	7
" " ¼"	"	-8¼		1	3	4
" " ⅜"	"	-	1	-	2	4
" " 7/16"	"	5-3½		12	3	8
				34388	14	6

				34388	14	6
Wire Germansilver G № 22	℔	1⅛		-	4	4
" " № 24	"	1-4		2	14	10
" " № 26	"	-14 25/32		2	2	4
Zinc sheet G № 7	"	68-		15	3	3
" " 7'x3'	"	46-		10	4	10
" block	"	51-5		11	-	1
Rupees				34430	12	2

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Madras
23th July 1885

Asst. Supt.

Asst. O'Connell
Genl. Supt. P.W. Workshops.

2/2.3.
30

Bm Em 3
7464/85

2123
31

(a)

General charges Account of the Presidency P.W. Workshops for the year 1884-85.

ENCLOSURE
29 JUL 85
EXAMINER, P.W. ACCOUNTS

To Cost of Permanent Establishment	17754	14	7	By Percentages or outturn to meet the cost of General charges as under:—		
" Cost of Contingent Establishment	...					
			20330	12	11	
" Cost of Contingencies	2575	14	4			
" Cost of fuel, oil & other materials used for Engines &c & repairs to Machinery Tools and Plant	4976	13	-	Mechanical Department	27114	10 8
				Instrument Department	1075	4
" Public Department	163	11	3	Foundry	4976	2 4
" Machinery and Plant				Cash for unclaimed wages &c	14	4 -
" Mechanical Department for repairs to Machinery &c	653	2	10	Sales	...	
" Instrument do do	16	11	1	Public Department	5	14 2
" Block for depreciation at 3%	2570	5	-			
" Machinery and Plant at 4%	2383	4	-			42,384 15 6
" Government for pension & leave allowances in the Permanent Establishment charges.	2221	15	9			
" Labour	288	9	2			
			13,274	8	1	
" Balance carried to Profit & Loss	...		8779	10	6	
Rupees			42,384	15	6	Rupees 42,384 15 6

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Madras 29th July 1885

Signature illegible

H. Mack. O'Connell
General Superintendent P.W. Workshops

(6) Profit and Loss

To Government for Interest on the opening balance as per statement	2,00,549 – 3 – 2		By Balance of Charges General account		8779 10 6
Plus amount due on purchase Dr account	1463 – 3 – 8		" Profits on Estimated Works and Standard rates.		
	2,02,002 – 6 – 10		Mechanical Department . . .		
			Instrument Department . . .		
At 4 per Cent as per G.O. No 527 of 8th June 1869		8080 1 6	Materials . .		
" Foundry		65 15 8			
" Raw Materials		2658 4 4	Balance of Interest due to Govt.		7648 2 –
" Purchase		" . .			
" Public Department		6 3 –			
" Sales		58 7 10			
" Mechanical Department		5610 4 6			
" Instrument Department		48 79			
	Rupees	16427 12 6		Rupees	16427 12 6

2/23/33

Madras 28th July 1880

Hugh. O'Connell
General Superintendent P.W. Workshops

(c)

Her Majesty's Government

To Transfer to Capital Account			By Opening Capital		
To Cash	11,010 12 1		By Cash for cheques drawn	118,000 . .	
" Transfers	142758 6 .		" Transfers	52996 . 1	
" Balance of Interest due to Govt	7618 2 .		" Interest on Capital	8080 1 6	
		161417 4 1	" Pension and Leave allowances	2221 15 9	
		19880 13 3	" Block	. . .	
" Increase to Capital			" Machinery and Plant	. . .	181298 1 4
		Rupees 181298 1 4			Rupees 181298 1 4

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Madras 20th July 1885

Hugh. O'Connell
General Superintendent P.W. Workshops

Clothes
18th July 1886.

Thos. O'Connor
Steward Drummondstad Asylum

Statement 29th Nov. 1886

Statement 29th Nov. 1886

21/23/35

" Amount to Credit 1886 193

" Interest 29th Nov. 1886 3

Balance 29th Nov. 1886 3-

Balance 29th Nov. 1886 3-

Balance due to Contractor on the 1st Oct. 1886

Balance due by Contractor on the 1st Oct. 1886

Deduct Amount of Contractor's Account for Clothes supplied during the Quarter ended 29th Nov. 1886

Deduct Amount of Contractor's Account for Clothes supplied during the Quarter ended 29th Nov. 1886

(c) Block

To Balance on 1st April 1894	85,677 3 1	By Depreciation at 3%	2,570 5 -
" Government		" Balance	83,106 14 1
	Rupees 85,677 3 1		Rupees 85,677 3 1

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Madras 28th July 1895

Hugh. O'Connell
General Superintendent P.W. Workshops

Cleveland
20th July 1886

Thank you for your letter

Thank O. Cannon
Edward Richmond Esqr. Melbourne

Ashore 7h.0m 9.7

Ashore 7h.0m 9.7

21/23/37

" Ballarat

Wind N.W.

Do Ballarat on N. Island 100m

" Melbourne Harbour

Sydney 19.1 Bay Christchurch N.Z.

1899 " 1899 " Melbourne Harbour

100 " 100 "

9380 h.

(5)

Cash.

To Balance			By Government	110 10 12 1	
" Government	110000		" Purchase	46031 1 1	
" Sales	5536 3 3		" Mechanical Department	31068 11 7	
" Profit & Loss for unclaimed wages &c.	14 4 "		" Instrument Department	10942 10 7	
			" Foundry	2080 13 9	
			" Charges General	2033 12 11	
			" Labour	2086 9 3	
	123550 7 3				123550 7 3

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38

Rupees 123550 7 3 — Rupees 123550 7 3

Madras
20th July 1886

Hugh O'Connell
General Superintendent P.W. Workshops

(h)

Labour.

To Cash	2085 9 3	By Mechanical Department	1320 14 4
		" Instrument Department	291 7 4
		" Foundry	181 10 5
		" Charges General	289 9 2
	2085 9 3		2085 9 3

2/23
39

Rupees 2085 9 3 — Rupees 2085 9 3

Madras
28th July 1885

J. Chatterton

Asst. O'Connell
General Superintendent P.W. Workshops

Mechanical Department

To Balance on 1st April 1884			9,533 12 11	By Sales		910 13 -	
" Cash		31,068 11 7		" Public Department		109,539 8 -	
" Materials		55,979 3 1		" Instrument Department		2,215 2 6	
" Percentages for General charges		27,114 10 8		" Foundry		160 6 3	
" Foundry		11,216 9 11		" Charges General		653 2 10	
" Public Department		34 4 2		" Raw Materials		485 11 11	
" Labour		1,320 14 4	126,731 5 9				113,964 12 6
				" Balance			16,793 1 9
				" Loss		2/23/40	5510 4 5
			Rupees 136,268 2 8				Rupees 136,268 2 8

Madras
20th July 1885

Hugh. O'Connell
General Superintendent P.W. Workshops

(j)

Instrument Department

To. Balance on 1st April 1884		6950 12 -	By Sales	1104 4 -	
" Cash	10942 10 7		" Public Department	28795 1 -	
" Raw Materials	5936 5 11		" Charges General	16 11 1	
" Percentages for Charges General	10754 - 4				29916 - 1
" Mechanical Department	2215 2 6				
" Public Department	- 6 -		" Loss		48 7 9
" Labour	2947 4				
		30193 - 8	" Balance		7179 4 10

2/23
41

Rupees 37143 12 8

Rupees 37143 12 8

Madras
20th July 1886

J. Chamberlain

Hugh. O'Connell
General Superintendent P. W. Workshops

(K.)

Foundry

To Cash		2,080	13	9	By Mechanical Department	11,216	9 11
" Raw Materials		4363	8	10	" Loss		65 15 8
" Mechanical Department		160	6	3			
" Profit on percentages received for Charges General		1149	2	4			
" Labour		181	10	5			
	Rupees	11,282	9	7	Rupees	11,282	9 7

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Madras
20th July 1886

H. Mackenzie Lieut

Hugh O'Connell
General Superintendent P.W. Workshops

(L.) Manufacture

To Balance on 1st April 1884	400 . .	By Balance	
		" Public Department	400 . .
			400 . .

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Rupees 400 . .

Rupees 400 . .

Madras
28th July 1885

J. Thundercliffe

Stuart O'Connell
General Superintendent C. W. Workshops

(M)

Raw Materials

To Balance on 1st April 1884		26609 2 9	By issues to Mech. Department	55979 3 1	
" Purchase	46234 13 5		" Ave M. Department	5986 5 11	
" Public Department	37574 2 4		" Foundry	4363 8 10	
" Mechanical Department	485 11 11		" General	1976 13 .	
" Machinery and Plant . . .	84294 11 8		" Sales	1572 13 1	
			" Public Department	936 2 .	73814 13 11
			" Loss		2658 4 4
			" Balance		34130 12 2
		110903 14 5			110903 14 5

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Madras
20th July 1885

Stuart

Stuart D'Connell
General Superintendent A.M. Workshops

(N) Purchase

To Cash	46031 1 1	46031 1 1	By Balance on 1st April 1888		1453 3 8		
" Balance	1657 . .		" Raw Materials	46234 13 5	46234 13 5		

Rupees 47688 1 1

2/23
45

Rupees 47688 1 1

Madras
21st July 1888

Hugh. O'Connell
General Superintendent P. W. Workshops

Scale

(4)

Salle des Seances

Hall O. Emma
Edward Stanwood & Ph. Mackie

Thos. J. Crewes
Grocer & Provisioner & Wine Merchant

Chelsea 19:12:81

21/23

Chelsea 19:12:81

Chelsea 19:12:81

(9)

Chemises

2 Calico Chemises	11:4:3 £	Pr Calico Chemises	2:9:6 · 1
" Chemises	2:9:6 · 1	" Chemises	11:2:3 £
	19:12:81		19:12:81

Balance sheet

To Block	83106 14 1	By Purchase bills payable	1657 - -
" Machinery and Plant	71427 14 7	" Capital	2,20,430 - 5
" Mechanical Department	16,793 1 9		
" Instrument Department	7,179 4 10		
" Manufacture	- - -		
" Raw Materials	31,430 19 2		
" Sales or Bills receivable	536 1 -		
" Public Department	8,613 - -		
	Rupees 2,22,087 - 5		Rupees 2,22,087 - 5

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Madras
20th January

Lieut. J. Connell
General Superintendent P.W. Works &c

Presidency P. W. Workshops
Revenue Account for the year 1884-85.

1883-84		Expenditure			1883-84		Earnings		
	Per Cent on Gross receipts		Abstract	Per cent on Gross receipts				Abstract	
18,626 4 -	47.80	Establishment	17,918 9 10	42.27	38,760 5 2	By Cartages		42,384 15 6	
2,864 2 3	6.4	Contingencies	2,864 7 6	6.75					
4,724 11 7	12.13	Repairs to Machinery	5646 10 11	13.32					
2,640 10 11	6.00	Depreciation Block	2570 5 .	6.06					
2,383 14 7	5.92	do Machinery	2,383 4 .	5.62					
1,170 7 7	2.06	Pension & Gratuities	2,221 15 9	5.24					
			33,605 5 .	79.26					
8,779 4 11	21.40	Balance net Earnings	8779 10 6	20.74					
			42,384 15 6	100.				42,384 15 6	

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Madras
12th July 1885

J. Chamberlain

Hugh O'Connell
General Superintendent P. W. Workshops

List of Bills outstanding on the 31st March 1885

Occasion	No. of Bills	Adjustment	Cash	Remarks
1883-84.				
Mr S. Francis Madras	575	2/12/3 5/4 ..	9 5 .	Paid 8th April/85
do	577	....	18 ..	do
M. Valayutha Chetty, Agent and Manager South India Press & Workshops, Madras	678	...	10 ..	Paid 11th April/85
Mr S. Francis Madras	640	...	23 15 .	Paid 8th April/85
T. Vincatrungum Naidu	642	...	1 15 .	" 11th April/85
1884-85				
T. Subrayen Trichy.	144	...	1 3 .	Paid 11th April/85
Sundrayappa Anchetty	145	...	14 10 .	
Exs. Engineer Bellary &c	164	15 ..		
M. Vyapury Madras	187	...	2 10 .	Paid 3rd July/85
Mr S. Francis, Madras	193	...	1 2 .	" 8th April/85
Ramasawmy, Packer	194	...	11 6 .	"
Mr S. Francis, Madras	366	...	1 7 .	Paid 8th April/85
do	367	...	4 3 .	do
Messrs Weir & Co Madras	368	...	53 13 .	
Mr B. H. Rozario Madras	372	...	1 15 .	Paid 11th April/85
Ex Engr in charge Govt Workshops Vaulavchavadi	384	101 14 .		
Lieut R. H. Mahon R.E. Madras	395	...		Adjusted.
District Judge Kistna	484	...	274 15 .	Paid
President Municipal Commissioners, Berhampore	516	117 1 .		
Member Attendant, Madras	554	...	1 7 .	Paid 8th April/85

Rupees 16027 12 6

Sd/ Knight D. Commr

Genl & Superintendent P.W. Madras

Rupees 16027 12 6

Net Revenue Account

To Amount credited to Mr Capitation &c 202002-6-10	By Mr D Earnings 8000 1 6
" Refund account Loss	" Balance of Mr Account due to Government 16118 2 .
	8779 10 6

Madras 2nd July 1885

On whom	No. of Bills	Adjustment	Cash	Remarks
Pahilwan Saib, Madras	557	" " "	3 " "	Paid 18th Inst
Mr S Francis Madras	558	" " "	12 13 "	" 8th "
Ex: Engineer Nilgiri Dte	570	54 2 "		
Mr S. Francis, Madras	575	" " "	21 "	Paid 8th "
do	576	" " "	12 6 "	
Ex: Engineer Trichinopoly Dte	583	740 " "		Adjusted
Consulting Architect to Govt Madras	597	6371 14 "		
do	616	419 9 "		Adjusted
Consulting Engr for Railways	618	14 " "		
Ex: Engr Jubbulpore E.I. Ry	619	1 9 "		
Collector of Chingleput Dt	630	" " "	2 15 "	Paid
Superintendent Travancore Survey	642	" " "	55 " "	do
Ex: Engineer Madura Dte	643	20 3 "		Adjusted
do Southern Dte	644	10 2 "		do
do Godavari Dte	647	17 13 "		do
do No 1 Tank Dte Madura	650	42 7 "		do
Master Attendant Madras	689	7 7 "		do
Commissary of Ordnance	693	18 7 "		do
Collector of Bellary	696	42 5 "		do
Adjutant General Coty	714	" 8 "		do
do	715	126 8 "		do
Master Attendant Madras	741	4 10 "		
Secretary Board of Revenue	743	74 " "		Adjusted
Post Master General Madras	744	18 3 "		do
do	745	21 12 "		do
Collector of Tanjore	753	6 5 "		do
Ex: Engr Ganjam Dte	760	52 3 "		
Secretary to Govt P.W.D. Madras	762	2 6 "		Adjusted
Examiner of P.W. Accounts	765	66 4 "		Paid
Ex: Engineer Nandidrug Dte	772	47 4 "		Adjusted
do No 1 Tank Dte Madura	775	1 10 "	2123/53	
do Tungam Project Dte	776	19 14 "		Adjusted
do Godavari Dte	780	88 1 "		do
Collector of South Canara	792	47 5 "		
Ex: Engr No 2 Tank Dte Madras	802	5 " "		
do B. Project Dte	803	15 3 "		Adjusted
do Godavari Dte	804	3 13 "		do
do Krishna Eastern Dte	806	51 1 "		do
Engr in chief Bellary Kistna Flats	807	1 2 "		do
Ex: Engr Villupuram Ry Survey	808	5 7 "		do
Commissioner of Salt and Abkaree Revenue Madras	811	41 " "		do
Ex: Commissariat Officer, Bangalore	814	4 10 "		do.
Rupees		8,613 " "	536 1 "	

Madras
20th July 1886

Mem. O. Commissariat
General Superintendent

PUBLIC WORKS DEPARTMENT.

A

PROCEEDINGS OF THE MADRAS GOVERNMENT.

2123/53 UNDER date the

READ the following

From the Sup^t P. W. Accts. A. C. No 54 Dated 24th August 85.

Submitted

With his letter above recorded the Examiner P. W. Accts. submits the annual accounts of the Presidency P. W. Workshops for the year 1884-85.

2. The liabilities charged during the year amounted to Rs 1,81,298, while the assets were Rs 1,73,651, showing a net loss on the

the year's transactions of Rs 7,648.

3. The outturn of the year was Rs 1,42,322, against Rs 1,19,506 in the preceding year, and Rs 1,39,937 in 1882-83.

4. The Supdg: Supvr: V Circle, will report on the question of the continuance or otherwise of existing orders on restricting the operations of the workshops in regard to work for other Departments.

and for the general public. These orders have now been in force sufficiently long to enable their full effect to be properly determined. In submitting his report, the Supdg: Supvr will enter fully into the matter and place Govt in possession of the facts of the case as they at present exist.

2123/54

5. In para 5 of G.O. No 360. W. dy 9th Feby 1/6/05 it was remarked that

the

the repair of Govt.
mathematical ins-
truments, as carried
out by Messrs Orr & Sons
of Madras, was not
altogether satisfactory
both as to quality
and price; and in
their report recorded
in G.O. No. 1494. W.d
16th June 1884, the
Committee appointed
to report on the
workshops recom-
-mended the retention
of the mathematical
instrument shops.
The Govt. however
were

were of opinion that
the experiment of
restricting the operation
of the Workshops had
not lasted sufficiently
long to allow of healthy
private competition.
The Supdg. Engineer
will now report for the
information of Govt.
what mathematical
instrument work has
been done since then*
by whom; and whether
it has been efficiently
& economically
carried out.

6. The Govt do not
consider

21/23/55
On a further representation
from members of the Legislature
Govt
Proceedings dated 10th March
1885 No 539 W, directed
that the firm should
be entrusted with the
repair of mathematical
instruments so far as
practicable; and in
para 2 of that order, the
Supdg Engr was directed
to report in due course
on the character of the
work done, as compared
with that done
* by outside agency
entered at the P.W.
workshops - the Supdg
now
Engr will state his
views on that point
in connection with
the report called
for in para 4 of
these Proceedings

considers that any advantage would be gained by adopting the course proposed in para 5 of the Deputy Examiner's report.

7. The attention of the Govt Supt. will be directed to paras 8 & 11 of ~~that foregoing~~ report; and he will note the Deputy Examiner's remarks therein for future guidance.

8. ~~Sanction is accorded to the discontinuance~~ The submission of the returns mentioned by the Deputy Examiner in para 13 of his report may be discontinued.

Cs.
28-8-85

LL.
7-9-85

91

V. Govt

Kindly say if the Examiner's letter and the 4 enclosures are intended to be printed

2123
5a

11/9/85

Govt Supt

PUBLIC WORKS DEPARTMENT

PUBLIC WORKS DEPARTMENT.

No. 2123 25

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 11th Septr/85

2123/57

READ the following

from the Examiner P. W. Accounts (A.E. No. 54 dd/ Augt 24th 1885)

With his letter above recorded, the Examiner P.W. Accounts submits the annual accounts of the Presidency P. W. Workshops for the year 1884/85.

2. The liabilities during the year amounted to Rupees 1,81,298, while the assets were Rs 1,73,650, shewing a net loss on the year's transactions of Rupees 7,648.

3. The outturn of the

year was Rs 1,42,322, against Rs 1,19,506 in the preceding year, and Rs 1,39,937 in 1882/83.

4. The Suptg Engineer V Circle, will report on the question of the continuance or otherwise of existing orders restricting the operations of the Workshops in regard to work for other Departments and for the general public. These orders have now been in force sufficiently long to enable their full effect to be properly determined. In submitting his report, the Suptg Engineer will enter fully into the matter and place Government in possession of the facts as they at present exist.

5. In para 5 of G.O. No 360 W dated 9th February 1884, it was remarked that the repair of Government Mathematical instruments, as carried out by Messrs Orr and Sons of Madras, was not altogether satisfactory as to both quality and price; and in their report recorded in G.O. No 1494 W dated 16th June 1884, the Committee appointed to report on the Workshops recommended the retention of the Mathematical

instruments shops,

1. On a further repre-
sentation from Messrs
Orr & Sons, the Government,
in Proceedings dated 10th
March 1885 No 554 W,
directed that that firm
should be intrusted with
the repair of Mathematical
instruments so far as
practicable; and in para
2 of that order, the
Supty Engineer was
directed to report in
due course on the character
of the work and its
cost, as compared with
that executed at the
S. W. Workshops. The

2123
59

Supty Engineer will now
state his views on that
point, in connection with
the report called for in
para 4 of these Proceedings.

6. The Government
do not consider that any
advantage would be gained
by adopting the course
proposed in para: 5 of the
Deputy Examiner's report.

7. The attention of
the General Superintendent
will be directed to paras
8 & 11 of that report, and
he will note the Deputy
Examiner's remarks thereon
for future guidance.

8. The publication of

the returns mentioned
by the Deputy Examiners
in para 13 of his report
may be discontinued

7.9.86

60

parked

Lapsing v Circle ✓ 23/9
Ext & Vacation ✓

Govt. of Madras 1885

PUBLIC WORKS.

Dated

Rec'd

Encl.

G.O. No. 1885.