

(1) Number of pages ~~38~~ 42
(2) Date of repair 24. 3. 87
(3) Initials of the Referencer lae ✓

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No.	2472 J 73 W	Press.
B.P. No.		Mis.
Dated	23 . 9 . 1882	197 .

Handwritten signature

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

No. 185.

READ—the following papers :—

From Lieutenant W. L. C. BADDELEY, R.E., General Superintendent, Public Works Stores, &c., to the Chief Engineer, Public Works Department, dated Madras, 31st July 1882, No. 797 S.

WITH reference to G.O., No. 438 W. of 18th February 1882, I have the honor to forward the following review of the expenditure of stores for the year 1880-81, together with the appendices required by the Government of India, viz. :—

- a. Statement of Receipts and Issues in Form B for 1880-81.
- b. Statement abbreviated from Form B for five years in Form C.
- c. Statement of balances at the end of each of the above five years.
- d. Statement prescribed in paragraph 6 of Financial Department Resolution No. 3574 of 3rd November 1880, with estimates of the financial results of the local purchase of European stores.

2. When considering the expenditure of stores by the Public Works Store Department it must be remembered that it is not only the depôt for supplying the Public Works Department, but it is also largely resorted to by all departments of Government, Local Funds, Municipalities, Railways, and Native States; also a very large amount of work is done for the Mysore, Southern Mahratta and Eastern Deccan Railways which does not appear in the accounts of the Public Works Store Department.

3. The value of stores issued during the year 1880-81 was as follows :—

	RS.
Public Works Divisions	17,579
Public Works Workshops	13,031
Dowlaishwaram Workshops	414
Civil Departments	1,445
Military	1,571
Native States	1,867
Railways	621
Local Fund Boards	9,894
Private persons	2,088
	48,314

4. Civil Departments, Native States, Railways, Local Funds, and Municipalities send no estimates of their probable yearly requirements, but their demands are met from the stock in hand or by purchase when urgently required; the Public Works Store Department merely acting as agents.

5. The receipt of stores during the year 1880-81 was as follows:—

	RS.
From London, Secretary of State	11,175
„ Civil Departments	6,340
„ Military	786
„ Public Works Divisions	7,599
„ Presidency Public Works Workshops	8,956
„ Railways	621
„ Indian market	5,108

6. From the above figures it will be seen that about one-eighth of the total expenditure on stores was incurred in the Indian market, and only when Government depôts and railways had failed to meet the demands.

7. These purchases were not forced by delays in the supply of English indents, but were necessary to meet urgent demands for articles not in stock.

8. In the purchase locally of articles of European manufacture there is a decided loss in price; but, on the other hand, the loss entailed by keeping large stocks is avoided, as purchases are never made locally except for actual present requirements.

9. From the statement of balances it will be found that there has been a gradual decrease from 1876-1879, but that in the latter year there was an increase of Rs. 2,24,145 owing to the transfer of all Imperial stores to Provincial.

10. Under existing orders of Government the balance of stock is to be kept as low as possible, and consequently no indents are made on England, and no stores are purchased locally except to meet actual requirements.

From N. St. B. BEARDMORE, Esq., C.E., Acting Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, dated Madras, 20th September 1882, No. 40 W.

G.O., No. 990 W., dated 22nd April 1882.
 „ „ 438 W., „ 18th Feb. „
 „ „ 2087 W., „ 22nd Aug. 1881

Enclosures.

1. Statement required in paragraph 6 of Government of India's No. 3574, dated 3rd November 1880.
2. Statement A.
3. „ B.
- 4 & 5. „ C & C (2).
6. „ D.

In compliance with directions conveyed in the Government Orders quoted in the margin I have the honor to submit the following review of the expenditure on stores during 1880-81. A summary will be found annexed in the form prescribed in paragraph 6 of Government of India's Resolution No. 3574 of 3rd November 1880; the details of that summary being embodied in a separate statement, A. Four additional statements are at the same time forwarded, viz.:—

Statement B showing Receipts and Issues for 1880-81.

Do. C do. do. for each year of the five ending 1880-81.

Do. C (2) showing Balances for each year of the five ending 1880-81.

Do. D showing classification of Stores.

2. Wherever practicable the exact English prices of imported articles have been entered in Statement A. In many cases only approximate figures have been supplied, as some invoices include more than one article of a different kind, whilst the freight is put down in a lump sum for the whole of the stores brought out, with nothing to indicate the proper proportion to be assigned to the different items. Results had therefore to be worked out as nearly as the existing records supplied the information. It is this, especially in the case of the statements of five years' "Receipts" and "Issues" and "Balances," that has occupied so great a length of time in preparing the report.

3. The largest item of imported articles in 1880-81 is 6,550 tons of Portland cement, which is the principal imported article used in the construction of these works. The value of that quantity was Rs. 2,59,732, at the average rate of Rs. 39-10-0 per ton taken on the whole of twenty invoices; the highest average rate at commencement of these works was Rs. 46 per ton. In the commencement of 1880-81, 603 tons of

cement of local manufacture were purchased at Rs. 39 per ton; this cement had been purchased previously at Rs. 43 per ton, but the quality at that time was not satisfactory and as it did not come up to the required test the contract was terminated.

4. Iron chains, canvas and deal planks, come next on the list of stores imported. The first article is not always procurable of size or quality required, and when one is pressed to purchase in the local market the cost is often as high as Rs. 32 per cwt.; the rate, when imported, ranges from 15 to 18 rupees per cwt. Canvas occasionally when out of stock in previous years was purchased from the leading local tradesman, and although at a cost of 10 to 12 annas per yard the quality was not equal to the price, whilst the imported article cost on an average about one-third less. Deal planks are, as a rule, always imported, being difficult to obtain locally, and when procurable the price, demanded is sometimes as high as 50 per cent. over the imported rate. Diver's gear is never procurable in the local market. On two or three occasions when the stock of underclothing, such as drawers and jersies was exhausted, flannel was purchased in the market at Rs. 1-8-0 and Rs. 1-10-0 per yard, the material being then made up by the divers themselves into jersies.

5. Nails and screws have always been purchased in the local market whenever required. Screws might probably be imported at a cost of 25 per cent. less than local prices.

6. Iron and steel of various sizes were imported when the works were commenced. Many of the sizes still remain in stock. In works of this class the requirements are so various and sometimes so sudden, and there is so much difficulty to obtain things in the local market, that it has been found advisable to keep different articles in stock.

7. Coal and coke were always purchased locally, the former from some one of the agency firms at Rs. 23 to Rs. 25 per ton. In 1877, 700 tons of coal were bought at the Public Works Stores for Rs. 27½ per ton. Coke has been bought from the Madras Railway Company at Rs. 43 per ton. Casuarina firewood grown in the country is largely used to supplement coal, and costs from Rs. 9½ to 11½ per ton.

8. Paints, varnish, and paint oils being always obtainable in the market are purchased only when needed. No stock has been kept or imported since the consignment received when these works were commenced, but which was supplemented in 1878 by a supply from the Public Works Stores.

9. Cordage—Manilla rope and spun yarn—are always in request, and for some works Manilla cordage is indispensable. When not procurable in the Government Arsenal or Madras Railway Company's stores the local market has to be resorted to and as high a rate as Rs. 38 to Rs. 42 per cwt. is demanded. Coir rope of local manufacture is however largely used, and wherever practicable substituted for Manilla; the highest price paid for coir rope has been Rs. 14 per cwt. Spun yarn was on one occasion obtained from Bombay at 8 annas per lb. or 2 annas above the price of the imported article, but the quality of the former did not equal that of the latter. The article was for a second time in 1880-81 obtained in the local market when as high a price as Rs. 1-2-0 per lb. was paid.

10. A quantity of castings of gear for machinery is executed at the Government Public Works Department Workshops, but there are certain wheels, spare parts of machinery and plant which it is found necessary to import from England, these are indicated * in detail Statement A.

* See invoices by S.S. *Duke of Argyle, Manora*, and *Hankow*.

11. I much regret the delay, explained in paragraph 2, that there has been in presenting this report.

No. 186.

ORDER—dated 23rd September 1882, No. 2472 W., Public Works.

Ordered to be forwarded to the Government of India, with reference to their letter No. 79-A. G., dated 2nd February 1882.

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2. Similar reviews and statements for the year 1881-82 should be submitted in due course by the General Superintendent, Public Works Stores, and the Superintendent, Madras Harbour Works.

(Here enter No. 2473 W., dated 23rd September 1882.)

(True Extract.)

Lieut.-Col., R.E.,
Ag. Under Secy. to Govt., P.W.D.

To the General Superintendent, Public Works Stores.
" Superintendent, Madras Harbour Works.

Exd. S. T. Austin.
Spare Copies

GENERAL.
ACCOUNT.

Gobt. of (1882) Madras.
PUBLIC WORKS.

Dated September, 23rd.

Recd.

Encl.

G.O., 23rd Sept. 1882, No. 2472 W.

SEPTEMBER.
Nos. 185-186.

Annual review of the expendi-
ture of Stores.

The — for 1880-81 and certain other state-
ments submitted by the General Superin-
tendent, Public Works Stores, and the Super-
intendent, Madras Harbour Works, ordered to
be forwarded to the Government of India.

23RD SEPTEMBER 1882, No. 2473 W., PUBLIC WORKS.

2472 173
4

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

No. 185.

READ—the following papers :—

From Lieutenant W. L. C. BADDELEY, R.E., General Superintendent, Public
Works Stores, &c., to the Chief Engineer, Public Works Department, dated
Madras, 31st July 1882, No. 797 S.

With reference to G.O., No. 438 W. of 18th February 1882, I have the honor
to forward the following review of the expenditure of stores for the year 1880-81,
together with the appendices required by the Government of India, viz. :—

- a. Statement of Receipts and Issues in Form B for 1880-81.
- b. Statement abbreviated from Form B for five years in Form C.
- c. Statement of balances at the end of each of the above five years.
- d. Statement prescribed in paragraph 6 of Financial Department Resolution
No. 3574 of 3rd November 1880, with estimates of the financial results of
the local purchase of European stores.

2. When considering the expenditure of stores by the Public Works Store
Department it must be remembered that it is not only the depot for supplying the
Public Works Department, but it is also largely resorted to by all departments of
Government, Local Funds, Municipalities, Railways, and Native States; also a very
large amount of work is done for the Mysore, Southern Mahratta and Eastern Deccan
Railways which does not appear in the accounts of the Public Works Store Depart-
ment.

3. The value of stores issued during the year 1880-81 was as follows :—

	RS.
Public Works Divisions	17,579
Public Works Workshops	13,031
Dowlaishweram Workshops	414
Civil Departments	1,445
Military	1,571
Native States	1,867
Railways	621
Local Fund Boards	9,894
Private persons	2,088
	48,314

4. Civil Departments, Native States, Railways, Local Funds, and Municipalities
send no estimates of their probable yearly requirements, but their demands are met
from the stock in hand or by purchase when urgently required; the Public Works
Store Department merely acting as agents.

2. Similar reviews and statements for the year 1881-82 should be submitted in due course by the General Superintendent, Public Works Stores, and the Superintendent, Madras Harbour Works.

(Here enter No. 2473 W., dated 23rd September 1882.)

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the General Superintendent, Public Works Stores.
„ Superintendent, Madras Harbour Works.

No. 187.

ENDORSEMENT—dated 23rd September 1882, No. 2473 W., Public Works.

Forwarded.

Lieut.-Col., R.E.,
Ag. Under Secy. to Govt., P.W.D.

Exd. S. T. Austin.
Spare Copies

GENERAL
ACCOUNT.

Gobt. of (1882) Madras.
PUBLIC WORKS.

Dated September, 23rd.

Recd.

Encl.

G.O., 23rd Sept. 1882, No. 2473 W.

SEPTEMBER.
Nos. 185-187.

Annual review of the expendi-
ture of Stores.

FORWARDING the — for 1880-81 and
certain other statements furnished by
the General Superintendent, Public Works
Stores, and Superintendent, Madras Har-
bour Works.

Office copy

Mr. Sept.

No. 2472 W.

To the General Superintendent
Mr. Stores.

Chennai 5th March/83.

The undersigned has
the honour to invite
para 2 of
attention to the Order
noted on the margin,
and to request that
the submission of the statements therein called for
the ~~proper~~ may be
expedited.

S
Major R. B.
Under Secy to Govt.
Mr. Sept.

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GOVT.
OF MADRAS.

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1882.

P.W.
DEPT.

Madras Harbour Works

Fort St. George,

20 Sept 1882.

Ref. 9. R OFFICE NOTE.

To Dy Works

With reference to my letter
No 30 W. of 2nd Augt and
your Memorandum No 1478
of the 5th August 1882.
Return the Review & Returns
on Stores furnished by Genl
Supt P.W. D. Stores.

I much regret the delay there
has been in forwarding my
Report on the same subject
but which now accompanies
this

W. B. Beardmore

+ with Rs 52800
I am very L. to the
Supt. P.W. D. Stores
22/9/82

No.
Recd the following from -

PUBLIC WORKS STORE DEPARTMENT,
Madras, 31st July 1882

No. 797 S.

2672873

From

THE GENERAL SUPERINTENDENT,

PUBLIC WORKS STORES, &c.,

To

THE Chief Engineer
P. H. D.

SIR,

Enclosure 5

With reference to G. O. No. 438 h.
of 15th February 1882, I have the honor
to forward the following review of the
expenditure of stores for the year 1880-81,
together with the appendices required by
the Government of India viz
a. — Statement of Receipts and Issues in
form B for 1880-81
b. — Statement abbreviated from form B
for 5 years in form C
c. — Statement of balances at the end
of each of the above 5 years
d. — Statement prescribed in form C of
Financial Department Resolution
No. 3044 of 2nd November 1880, with
Estimates of the financial results
of the local purchase of European
Stores.

2 When considering the expenditure
of

25/2/1882, No 2672873 W.P.M.

of stores by the P. h. Store Department it must be remembered that it is not only the depot for supplying the P. h. R. but it is also largely resorted to by all departments of Government, Local Funds, Municipalities, Railways and Native States; also a very large amount of work is done for the Mysore, Southern Mahratta and Eastern Deccan Railways which does not appear in the accounts of the P. h. Store Department.

3 The value of stores issued during the year 1880-81 was as follows:

P. h. Divisions	Rs. 17,579
P. h. Workshops	13,031
Dowlaisheeram Workshops	414
Civil Departments	14,412
Military	18,71
Native States	18,67
Railways	621
Local Fund Boards	9,894
Private persons	2,088
	Rs. 48,314

4 Civil Departments, Native States, Railways, Local Funds, Municipalities send no Estimates of their probable yearly requirements, but their demands are met from the stock in hand or by purchase when

urgently required; the P. h. Store Department merely acting as agents.

5 The receipt of stores during the year 1880-81 was as follows:

From London Secretary of State	Rs. 11,75
" Civil Departments	6,340
" Military	786
" P. h. Divisions	7,599
" P. h. Workshops	8,956
" Railways	621
" Indian Market	5,108

6 From the above figures it will be seen that about $\frac{1}{8}$ of the total expenditure on stores was incurred in the Indian Market, and only when Government Depôts and Railways had failed to meet the demands.

7 These purchases were not forced by delays in the supply of English Indents, but were necessary to meet urgent demands for articles not in stock.

8 In the purchase locally of articles of European manufacture there is a decided loss in price; but on the other hand the loss entailed by keeping large stocks is avoided, as purchases are never made locally except for actual present requirements.

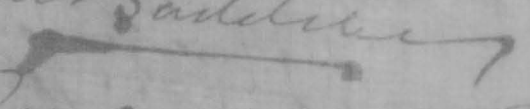
9 From the statement of

of balances it will be found that there has been a gradual decrease from 1876-79 but that in the latter year there was an increase of Rs 224,145 owing to the transfer of all Imperial stores to Provincial.

10. Under existing orders of Government the balance of stock is to be kept as low as possible, and consequently no Indents are made on England, and no stores are purchased locally, except to meet actual requirements.

I have the honor to be

Sir

Your Most Obedt Servt
~~Wm B. ...~~  Genl Duff
Genl Duff R. H. Store

402534-31-1-87
 20874-22-8-7
 25794-20-10-7
 5415W-9-1-82
 43820-10-2-4

Public Works Store Department.

From
 THE GENERAL SUPERINTENDENT,
 P. W. STORES, &C.,
 MADRAS.

To
 The Chief Engineer
 P. W. S.

No. 777 S.

Dated 31st July 1882
 Despd. 31st July 1882
 Recd. 1st Aug 1882

No. of ENCLOSURE 5

No. 1478 C 8/5/82

Forwards Review of
 the Expenditure of Stores for the
 year 1880-81, to go with the
 Appendices required by Government
 of India in P. W. S. Resolution No. 7-20
 A. G. dated 5th January 1881.

FROM

No. 401W

THE ACTING SUPERINTENDENT,
 MADRAS HARBOUR WORKS,

TO

The Secretary to Government
 Public Works Department
 Chapak

MADRAS, 20th September 1882

Sir,

In compliance with directions conveyed
 in the G.O's quoted in the Margin I have
 the honor to submit the following Review
 of the Expenditure on Stores during 1880-81.
 A summary will be found annexed
 in the form prescribed in paragraph
 b of Government of India's Resolution
 No. 3574 of 3rd November 1880; the
 details of that summary being embodied
 in a Separate Statement, A. Four additional
 Statements are at the same time forwarded
 viz:—

Statement B showing Receipts and Issues
 for 1880-81.

" C showing Ditto for each year
 of the five ending 1880-81

" C (2) showing Balances for each
 year of the five ending
 1880-81

" D showing Classification of stores.

Wherever

G.O. No. 990W of 22-4-82
 " No 4387W of 19-2-82
 " No 2087W of 22-6-81

401W-10-1-82
 401W-10-1-82
 401W-10-1-82

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(2) Whenever practicable the exact English prices of imported articles have been entered in Statement A. In many cases only approximate figures have been supplied, as some Invoices include more than one article of a different kind whilst the freight is put down in a lump sum for the whole of the stores brought out, with nothing to indicate the proper proportion to be assigned to the different items. Results had therefore to be worked out as nearly as the existing records supplied the information. It is this, especially in the case of the Statements of five years' "Receipts" & "Issues" and "Balances", that has occupied so great a length of time in preparing the Report.

(3) The largest item of imported articles in 1880-81 is 6550 Tons of Portland Cement which is the principal imported

articles

article used in the Construction of these Works. The value of that quantity was Rs 2,59,732 - at the average rate of Rs 39-10- per ton taken on the whole of 20 Invoices; the highest average rate at Commencement of these Works was Rs 46 per ton - In the Commencement of 1880-81 603 tons of Cement of local manufacture were purchased at Rs 39 per ton; this cement had been purchased previously at Rs 43 per ton but the quality at that time was not satisfactory and as it did not come up to the required test the Contract was terminated.

(4) Iron Chains - Canvas and Deal planks, come next on the list of stores imported. The first article is not always procurable of size or quality required, and when expressed to purchase in the local market the cost is often as high as 32 Rs per cwt; the rate, when imported, ranges from 15 to 18 Rs

per

per cwt. Canvas, occasionally when out of stock in previous years was purchased from the leading local tradesman and although at a cost of 10 to 12 annas per yard the quality was not equal to the price whilst the imported article cost on an average about one third less. Deal planks are, as a rule, always imported, being difficult to obtain locally, and when procurable the price demanded is sometimes as high as 50% over the imported rate. Divers gear is never procurable in the local market. On two or three occasions when the stock of underclothing such as Drawers and Jerseys was exhausted Flannel was purchased in the market at Rs 1/8 and Rs 1/10 per yard, the material being then made up by the Divers themselves into Jerseys.

(5) Nails and Screws have always been purchased in the local market whenever required. Screws might probably

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be imported at a cost of 25% less than local prices

(6) Iron and Steel of various sizes were imported when the Works were commenced. Many of the sizes still remain in stock. In works of this class the requirements are so various and sometimes so sudden, and there is so much difficulty to obtain things in the local market, that it has been found advisable to keep different articles in stock.

(7) Coal and Coke were always purchased locally - the former from some one of the Agency Stores at Rs 23 to Rs 25 per ton. In 1877, 700 tons of coal were brought at the P. W. Stores for Rs 27½ per ton. Coke has been bought from the Madras Railway Company at Rs 4.3 per ton. Casuarina firewood grown in the country is largely used to supplement Coal and costs from 9½ to 11½ Rs per ton.

(8) Paints, Varnish, and Paint Oils being always obtainable in the Market are

purchased

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purchased only when needed. No stock has been kept or imported since the Consignment received when these Works were commenced, but which was supplemented in 1878 by a supply from the P. W. Stores.

(9). Cordage - Manilla rope and Spun Yarn are always in request, and for some works Manilla Cordage is indispensable. When not procurable in the Government Arsenal or Madras Railway Company's Stores the local market has to be resorted to and as high a rate as Rs 38 to Rs 42 per cwt is demanded. Coir rope of local manufacture is however largely used, and wherever practicable substituted for Manilla; the highest price paid for Coir rope has been Rs 14 per cwt. Spun Yarn was on one occasion obtained from Bombay at 8 annas per lb or 2 annas above the price of the imported article, but the quality of the former

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did not equal that of the latter. The article was for a second time in 1880-81 obtained in the local market when as high a price as Rs 1.2 per lb was paid.

(10) A quantity of Castings of gear for Machinery is executed at the Government Public Works Department Workshops but there are certain wheels, spare parts of Machinery and plant which it is found necessary to import from England - these are indicated* in detail.

Statement A.

* see Invoices by
Lt. Duke of Argyll
Lt. Munro
Lt. Halkett.

(11) I much regret the delay, explained in paragraph 2, that there has been in presenting this Report.

I have the honor to be,

Sir,

Your most obedient Servant,
Rath B. Beardmore, Esq.

Ag: Superintendent
Madras Harbor Works

Statement



From *M.C. 6422*

The Acting Superintendent
Madras Harbour Works

No. 40 W

Dated 20th

Received } September 1882

File with S. H. W.

No. of Enclosures 6.

Expenditure on European
Stores ^{imported} on European Stores
purchased locally, and on
Stores of native production
for 1880-81, and for five
years 1876-81, with Review
and Six Statements.

No. 2472 W *P. 10* *sent*
at 10

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 23rd Sept 82

Read the following:

From the *sent* Supt P.W. S. H.S. No 7975 of 31st July 1882
in Supt. Mr. H. W. in a 40 W of 20th Sept 82

Ordered to be
forwarded to the Govt.
of India with reference
to their letter No 79 a. G.
dated 2nd February, 1882.

2. Similar review
& statements for the
year 1881-82 should
be submitted in due
course by the Supt Supt
P. W. Stores & the Supt
Mr. H. Walker.

H. S. No 2473 W of 23rd Sept 82

Sent Supt P.W. S. 3
Supt Mr. H. W. 3

Forwarded

Cy *29/9*
with H. W. 23rd Sept 82
with H. W. 29/9

5/11. 6/22 4u

Govt of (1882) Madras.

PUBLIC WORKS.

Date

Recd.

Encl.

G. O. 23rd Sept 1882, No. 2472 W.

2473 W

Nos. 185 to 187

Annual review of
the expenditure of the

the ~~for~~ for 1880/81
and certain other
statements and by
the Genl Supt & Mr. [unclear]
& the Supt & Mr. [unclear]
ordered to be forwarded to the
Govt.

do do do

For the ~~for~~ for 1880/81
& certain other statements,
furnished by the Genl Supt
& Mr. [unclear] & the Supt & Mr. [unclear]
and in receipt of the

2-10 Mr.
23/9.

23/9 3 PM