M R O. 1—77,000—8-6-37.

(1) Number of pages 2

(2) Date of repair

(3) Initials of the Reference

MADRAS RECORD OFFICE.

Government of Madras.

Police DEPARTMENT.

G.O. No. 2374 Press Mis.

2714 728

Dated 17 -7 1877.

Not to be folded or roughly handled

No. 291A. Read the following letter from the General Superintendent of Public Works Workshops and Stores, to the Secretary to Government, Public Works Department, dated Chepauk, 13th July 1871, No. 707.—

1 Statement.
1 Contract

WITH reference to Order of Government, dated 28th June 1871, No. 1,725, on the letter from the Controller of Public Works Accounts, reporting the results of the audit of the Presidency Workshop Accounts for the year 1870-71, I have the honour to lay before Government a statement showing the causes of the loss shown therein.

2. The Workshops at Chepauk are divided into three working departments, the accounts of which are kept separate that the profitable working of each department may be ascertained.

These departments are—

I.—Mechanical Department, comprising—
Carpenter's Shop,
Smith's do,
Fitting do.,
Turning do, and
General Construction.

II.—Mathematical Instrument Department.

III.—Foundry.

3. The Foundry should rightly be included in the Mechanical Department, but under the present method of working it must form a separate department.

4. From the working of each department for the last two years, shown in Statements A. to F. appended to this letter, it will be seen that, during the year 1869-70, the

	RS.	A.	P.
Net profit in the Mechanical Department was .	10,400	7	9
Net loss in the Instrument Department	1,877	10	1
Do. in the Foundry	1,496	11	11

and during the year 1870-71, the

Net profit in the Mechanical Department was ...	2,959	11	3
Net loss in the Instrument Department .	2,817	0	0
Do. in the Foundry	740	4	8

and if the rate of depreciation for this year had not been reduced,* the loss in the operations of the Workshops for this year would have amounted to Rupees 6,183-11-6 as shown below.—

* *Vide* G. O, No. 668, dated 7th March 1871.

	RS.	A.	P.
Net loss, Mechanical Department	400	1	8
Do. Instrument do.	3,171	13	1
Do. Foundry	2,611	12	9
	6,183	11	6

5. The profits of the Mechanical Department (or Workshop proper) shows fully the necessity of such an institution, and the correctness of the opinions recorded in G. O., No. 1,019, of 13th April 1864, and No. 2,899, of 7th October 1864.

6. The continual loss in the Mathematical Instrument Department is owing to the high salary (Rupees 500 per mensem) paid to the Mathematical-Instrument Maker, and the small demand for his technical knowledge, unless occasionally from the Observatory, Great Trigonometrical and Revenue Surveys, and the Public Works Department; and as from the nature of these demands it is not possible to recover his pay, I trust that Government will be pleased to allow one-half of this charge, in the shape of a monthly bill on the Stores for keeping the instruments therein, in good order, to be met from the Store allotment in Part V of the Budget for repairs, etc., as Government directly, through the Stores and other departments, obtain the full benefit of the services of such a highly paid workman. To increase the out-turn of the Instrument Department, it was found necessary to transfer considerable quantities of work from the Mechanical Department.

7. The losses on account of the Foundry shown in Statements C. and F. are not the only losses the Workshops have to sustain under this head.

8 The Foundry was built and supplied with the necessary tools and machinery for carrying on the work towards the end of 1866, and on the 1st January 1867 Government entered into a contract with Monsieur de Closets for the working of the Foundry, the conditions being that he should be supplied, free of charge, with all tools, machinery, etc, necessary for carrying on the work, in return for which all officers of Government and the public were to be supplied with castings at the rates entered in the schedule of prices attached to the agreement. In this agreement no concession whatever is made to the Workshops, yet the cost of the Foundry, etc, amounting to Rupees 73,810, is debited to the Workshops, and the interest and depreciation on block and plant, amounting to Rupees 17,189-5-0, as shown in the margin, has had to be met from the profits of the Mechanical Department.

	Rs	A	P	
1867-68 .	3,135	4	10	Interest on capital
1868-69 ..	5,562	1	1	not charged this
1869-70 ..	5,153	12	2	year
1870-71 ...	3,038	2	11	Depreciation reduced to 2 per cent
	17,189	5	0	

9 There is a profit, certainly, to the Workshop by the sale of castings required in the execution of work done; but this profit should not be taken into account in considering the loss to the Workshop by the above amounts on account of interest and depreciation, as all necessary castings required by the Workshops up to that date were supplied by the Mint Master (at the same and even lower rates than are now obtaining with Monsieur de Closets) without the expense of the above charges.

10. The following will show the average cost per ton of castings turned out:—

	Rs
Iron, at Rupees 50 per ton . .	50
Wastage, at 6 per cent. . ..	3
Fuel, at Rupees 50 per ton . .	25
Labour per ton	20
Sundries	2
	100

11. This is allowing extremely high prices for fuel and iron, and as 16 tons per month is the average quantity of castings turned out of the Foundry at an average rate of Rupees 150 per ton, thus giving a clear profit of Rupees 50 per ton, being Rupees 800 per mensem, or Rupees 9,600 as the yearly profits, which amount would certainly improve the financial condition of the Workshops, and as no Engineering establishment should be debarred the use of its Foundry, I trust that Government will be pleased to close the contract for working the Foundry with Monsieur de Closets, that gentleman having already provided himself with a Foundry, including a smelting furnace with blowing engine, etc, at Washermanspettah

12 In establishing the Workshop it was intended by Government to meet the increasing wants of the Public Works Department for structures in wood and iron, the chief demand being for wood wrought and unwrought, but hitherto the Workshops had never had the means, namely, a saw mill, of meeting these demands, and consequently obtaining that support from the officers of the Public Works Department which an establishment like this merits, for it was well known (and which the subsequent working of the Workshops has shown) that the Government work must form the chief support This, with the causes shown in paragraphs 4 to 7, has necessitated an increase in the rates charged for work done, and which (in a few cases rightly) has given rise to the prevalent opinion of the excessively high rates obtaining for work done by the Workshops, the result being a falling off in those demands that could be supplied, and the consequent loss sustained in the operations of the Workshops as shown in the Controller's letter.

13. To remedy this in part, by erecting saw mills, a large vertical sawing frame and circular sawing tables, the property of the late Saw Mills Company, was purchased and paid for by the Workshops in April last for Rupees 1,000, and to set these machines up for working it will be necessary to connect them with a 20-horse power engine, (already in place and belonging to the Workshops, but not in use) To do this it will be necessary to remove a small embanked roadway and turn-table a distance of about 40 feet, (the cost of which and subsequent erection of the sawing frame will amount to about Rupees 2,000,) which I trust Government will be pleased to authorize the Superintending Engineer, 4th Division, to carry out. The early working of the saw mills would enable the Workshops to realize a profit in the current year by the sale of cut timber.

14. In the foregoing I have endeavoured to show the causes of loss in the operations of the Workshops and also the remedies, the carrying out of which, I hope, Government will be pleased to sanction.

YEAR 1869-70.

STATEMENT A.

Mechanical Department.

	Rs	A	P		Rs	A	P.
To two-thirds cost of Office Establishment and the whole of the General Superintendent's allowance and contingency .	16,543	9	0	By profit on the ordinary working of the shop ...	37,783	2	0
,, general material	3,473	9	9	,, do on manufactured goods	2,200	13	1
,, do castings	71	12	11	,, do. on raw materials ...	944	3	5
,, charges general by Mechanical Department ..	950	6	6	,, do by unclaimed wages...	51	6	2
,, loss by return of bills ...	125	6	9				
,, depreciation on block ...	1,112	14	10				
,, do on machinery ..	3,410	8	11				
,, interest on capital ..	4,716	9	5				
,, loss on estimates	224	2	10				
	30,629	0	11				
,, Profit, Net...	10,400	7	9				
Total ...	41,029	8	8	Total ..	41,029	8	8

STATEMENT B.

Instrument Department.

	Rs.	A	P.		Rs	A	P.
To one-third cost of Office Establishment and the whole of the Mathematical Instrument Maker's allowance, and contingency	7,591	1	2	By profit on the ordinary working of the shop ...	6,855	15	4
,, general materials	189	1	9	,, on estimates	1,298	10	6
,, depreciation on block ...	556	7	5		8,154	9	10
,, interest on capital ...	1,695	9	7	,, Loss, Net	1,877	10	1
Total ..	10,032	3	11	Total ..	10,032	3	11

STATEMENT C

Foundry.

	Rs.	A	P.		Rs	A.	P
To depreciation on block ...	1,051	11	8	By profit on castings ..	3,917	4	10
,, do on machinery ...	1,858	3	11	,, Loss, Net	1,496	11	11
,, interest on capital ...	2,213	12	7				
,, loss in Mechanical Department for reduced rates of castings	260	4	7				
Total...	5,414	0	9	Total ..	5,414	0	9

Proceedings of the Madras Government, Public Works Department,
19th September 1871.

YEAR 1870-71.

STATEMENT D.

Mechanical Department

	Rs.	A	P.		Rs	A	P.
To two-thirds cost of Office Establishment and the whole of the General Superintendent's allowance, and contingency	13,113	15	10	By profit on the ordinary working of the shop	22,469	6	9
,, general materials . .	3,043	11	11	,, do. on manufactured goods	2,038	12	11
,, do castings	60	7	11	,, do on raw materials .	3,160	12	2
,, do experiments ...	677	6	6				
,, loss by return of bills ...	228	15	3				
,, depreciation on block .	709	10	3				
,, do on machinery .	662	8	8				
,, interest on opening capital .	4,807	8	1				
,, loss on estimates	1,405	0	2				
	24,709	4	7				
,, Profit, Net	2,959	11	3				
Total	27,668	15	10	Total .	27,668	15	10

STATEMENT E

Instrument Department.

	Rs.	A.	P		Rs	A	P
To one-third cost of Office Establishment and the whole of the Mathematical Instrument Maker's allowance, and contingency	7,704	10	2	By profit on the ordinary working of the shop .	6,969	0	6
,, general materials	167	12	2	,, do. on estimates ...	6	13	8
,, loss by return of bills	109	3	5		6,915	14	2
,, depreciation on block ...	354	13	1	,, Loss, Net	2,817	0	0
,, interest on capital ...	1,396	7	4				
Total...	9,732	14	2	Total ..	9,732	14	2

STATEMENT F.

Foundry.

	Rs	A.	P.		Rs	A.	P.
To depreciation on block ...	533	9	1	By profit on castings ..	2,977	0	7
,, do on machinery ..	334	7	9	,, Loss, Net	740	4	8
,, interest on capital ...	2,170	2	1				
,, loss in Mechanical Department for reduced rates of castings	679	2	4				
Total .	3,717	5	3	Total .	3,717	5	3

CHEPAUK,
13th July 1871.

(Signed) J. N. GRAINGER,
General Superintendent,
Public Works Workshops and Stores.

No. 291B. ORDER THEREON, 19th September 1871, No. 2,376A.

ACCOUNT, No. 31A.

IN Proceedings dated 28th June 1871, No. 1,725, the Government, in reviewing the operations of the Chepauk Workshop, remarked that as the institution was not sustaining that self-supporting character which was contemplated by its establishment, it was necessary to consider what measures were calculated to improve its financial position, and with this view they stated that they would be glad to receive any proposals which the General Superintendent of Public Works Stores and Workshops might wish to make. The letter recorded at the head of these Proceedings is Mr. Grainger's reply.

2. The Workshop is divided into three departments, namely, (1), the Mechanical Department, (2) the Mathematical Instrument Department, and (3) the Foundry, and the accounts of each are separately kept.

3. The results of the working of each department, as detailed in paragraph 4, are satisfactory so far as the Mechanical Department, is concerned. The loss in the Instrument Department is attributed to the high salary (Rupees 500) of the Mathematical Instrument Maker having to be met from the earnings of the institution, and looking to the extent to which the services of Mr. Doderet are utilized in the repair of Government Stores, Mr Grainger suggests that a moiety of the salary of the Mathematical Instrument Maker be debited to the store allotment in Part V. of the Budget.

4. Mr. Doderet's services being very valuable to the Department in the saving by timely repair of expensive scientific instruments which would otherwise have to be sent to England or be sold for a trifle, are necessarily costly, and the Government, fully recognizing the difficulty of apportioning his salary to the work actually done by him, as well as the circumstance that part of his expenses may fairly be charged to the Store Department in consideration of his services in keeping the scientific instruments which are in stock in serviceable order, are of opinion that it is quite reasonable to debit one moiety of Mr. Doderet's salary to the Store allotment, and the other to the Mathematical Instrument Department, the accounts of which it appears to His Excellency the Governor in Council might be advantageously amalgamated in future with the Mechanical Department.

5. In paragraphs 8 to 11 the General Superintendent points out that interest on capital and depreciation on block and plant in the operations of the Foundry have formed heavy items of charge on the profits, and he considers that if the agreement entered into with Mr. de Closets for working the Foundry be concluded, this branch of the Workshop can be worked with much advantage. Mr. Grainger adds that Mr. de Closets has provided himself with a Foundry at Washermanpettah.

6. It appears to the Government that the time has arrived when Mr. de Closets' contract for working the Foundry might be terminated, and the Public Works Workshop be allowed to derive the advantage of the profit on castings which legitimately belongs to it, and the necessary steps will be taken to terminate the said contract by the end of the current official year.

7. Finally, the General Superintendent recommends that the vertical sawing frame and circular sawing tables, which were purchased by the Workshops in April last, should be set up and worked, in order that the increasing demands of the Public Works Department may be more effectively and economically met. To effect the object in view Mr Grainger reports that it will be necessary to connect the machines with a 20-horse power engine at present in position at the Workshop, and that this will necessitate the removal of a small embanked roadway, the cost of which, including the erection of the sawing frame, he estimates at Rupees 2,000.

8. The Government approve of the work necessary to be done for setting up the saw mill, which they think might be worked to great advantage in cutting up timber into useful scantlings for various purposes and so saving the carriage of the waste from Madras to many up-country stations.

9. As the balance of the Provincial Reserve at the disposal of this department under Civil Buildings is very small, it will be considered in the Financial Department whether a sum of Rupees 2,000 can be specially provided for the work. If funds be not forthcoming this year the necessary provision will be made in the Budget of the ensuing official year.

(True Extract)

Captain, R.E.,
Under Secretary to Government.

To the General Superintendent of Public Works Stores and Workshops
" Controller of Public Works Accounts
" Financial Department

Exd S. T. Augustin.

Statement A

Mechanical Department.

To Post Office Establishment and Incidentals	11653 9 —	By Postal and Telegraph Revenue	37753 2 —	
" Stamps		" Do on Service Postage	22013 1	
" Postal Materials	3173 9 9	" Do on Postal Materials	9869 5 5	
" Do Carriage	71 12 11	" Do on Miscellaneous Receipts	57 1 2	
" Miscellaneous General Do	950 6 6			
" Special Department				
" Postal Returned Letters	125 6 9			
" Do Returned on Block	1112 14 10			
" Do on Packing	2446 8 11			
" Miscellaneous Capital	1322 9 5			
" Loss on Estimate	274 5 10			
	34629 11			
" Postal Service	10460 9 9			
Total Rupees	44089 8 8	Total Rupees	44089 8 8	

Statement B

Electric Department.

To Post Office Establishment and Incidentals of the Electric Telegraph and Interest allowance, and Contingency	5591 1 2	By Postal on the Telegraph Revenue	1855 15 1	
		" Do on Estimate	1298 10 6	
			8154 9 10	
" General Materials	189 1 9	" Various ditto	1877 10 1	
" Service on Block	556 7 5			
" Miscellaneous Capital	1895 9 7			
Total Rupees	10032 3 11	Total Rupees	10032 3 11	

Statement C.

Cavalry.

Schreuderlaan en Block	[illegible]
Do do Straatsburg	[illegible]
Lukenaer Kapelaal	[illegible]
Leeraar Mechanical Department for Education and Salary of Teachers	[illegible]
Total Rupees	[illegible]

Statement D

Commissariat Department

Block Office Establishment and the whole of the General Superintendence & Allowances and Contingencies	1318 15 10
General Stationery	3243 11 11
Do Carriage	60 7 11
Do Entertainments	67 [illegible]
Cooly hire & Bell	228 15 3
Refreshments on Block	189 12 3
Do to Straatsburg	662 8 8
Lukenaer Cleaning Capital	4807 8 1
Loss on Estimate	1165 2
Postage	[illegible]
Total Rupees	[illegible]

Statement E

Quartermaster's Department.

Block Office Establishment and the whole of the Material and Incidental Establishment & all Charges and Contingencies	3724 12 2
General Stationery	167 3 2
Spare Apparatus of Bell	10 12 3
Schreuderlaan en Block	334 11 1
Lukenaer Kapelaal	1316 7 11
Total Rupees	4732 15 2

Statement F

Foundry

Schreuderlaan en Block	333 7 1
Do do Straatsburg	334 7 7
Lukenaer Kapelaal	2198 2 1
Leeraar Mechanical Department for Education and Salary of Teachers	679 24
Total Rupees	3717 5 3

Public Works Contingencies
Cherrapunjee 13th July 1871

J. Allen
Executive Engineer, Khasi

Enclosure in Letter from the General of the Public Works Battalion and Lieut. Colonel Commandant of Royal Engineers dated 13th April 1857.

P. No. 335/57

Statement of the Operations of the Public Works Battalion 1854-55. and 1855-56.

III. [illegible] Department

3. The Secretary should be added to the Mechanical Department, but under the superintendence of the Chief Engineer, as usual in a separate Department

4. From the working sheets of the Estimates for the Railway Companies shown on Sketch Nos. I & II. should be made out, during the year 1862-63, the [illegible] on the Mechanical Department [illegible] on the Sketches

[illegible] General [illegible]

[illegible] thereon for [illegible]

[illegible] on the Sketches

[illegible] on the [illegible]

[illegible] Department [illegible]

[illegible] Mechanical Department [illegible]

[illegible] Engineer [illegible]

[illegible] and of the state of Construction of the Lines [illegible] shall be laid before the Board on the [illegible] Chairman of the Committee, in like manner as would have been required by [illegible] as shown below

[illegible] Mechanical Department [illegible]

[illegible] Engineer [illegible]

[illegible] Secretary [illegible]

5. The Secretary of the Treasury Department (or Secretary thereof) should publish the necessary information under the authority of the Chief Engineer, as soon after the 30th June & 31st December 1862, and 30th September & 31st October 1863

6. The Department known as the Statistical Department to report to the High Salary (Chief Engineer) [illegible] Statement Department under the Assistant Engineer, and the necessary [illegible] for the technical [illegible] regulations, to be prepared from the Standing Orders & Regulations, and the Public Instructions issued to Engineers, as the Public Interests may require, as the Board will be pleased to allow one half of the charge, in the shape of a Quarterly Bill on the Stores for printing the Instructions thereon, in good order, to be sent from the Stores [illegible] in Dr. to the Credit for [illegible] Department, to be entered [illegible] Stores and other particulars obtain the full benefit of the services of such a highly skilled Engineer [illegible] the Duties of the Statistical Department [illegible] may be necessary to [illegible]

[illegible]

is [illegible] in [illegible] [illegible] from the Mechanical Department

7 [illegible] shown in Statement C. and E. is not the [illegible] the Workshop [illegible] since its [illegible]

8 The Foundry was built [illegible] supplied with the necessary tools and machinery [illegible] up to the end of 1866 [illegible] Government [illegible] made a contract with [illegible] for the working of the Foundry, the contractor [illegible] with all tools [illegible] in [illegible] Government and the [illegible] were to be supplied with [illegible] at the rates [illegible] the Agreement [illegible] the Workshop [illegible] Foundry [illegible] 93810 to be debited to the Workshop [illegible] and [illegible] as recommended [illegible] the profits of the Mechanical Department.

[illegible] 1805 [illegible]

9 There is a profit certainly to the Workshop by the sale of Castings required in the execution of work done; but this profit should not be taken into account in considering the loss to the Workshop by the abatements on account of interest and depreciation, as all necessary castings required by the Workshop up to that date were supplied by the Iron Foundery at the same and even lower rates than are now obtaining with Messrs. [illegible] [illegible] the [illegible] of the above charges.

10 The following will show the average cost per ton of Castings turned out.

Iron at Rupees 50 per ton	Rupees 50 – –
Wastage at 6 per cent	3 – –
Fuel at Rupees 50 per ton	25 – –
Labor per ton	20 – –
Sundries	2 – –
	Rupees 100 – –

11 This is allowing extremely high prices for fuel and iron, and as 16 tons per month is the average quantity of Castings turned out of the Foundry at an average rate of Rupees 150 per ton, thus giving a clear profit of Rupees 50 per ton being Rupees 800 per mensem or Rupees 9600 as the yearly profit which amount would ultimately

and [illegible]

improve the financial condition of the Workshops, and as no Commercial Establishment should be desirable to the use of its Foundry, I trust that Government will be pleased to close the contract for working the Foundry with Messieurs de Mello, that gentleman having already provided himself with a Foundry including a Machine frame with Boring Engine &c at [illegible]-[illegible].

12. In establishing the Workshops it was intended as instrument to meet the increasing wants of the Public Works Department for structures in wood and iron, the establishment being [illegible] [illegible] but hitherto the Workshops have never had the means, viz. a Saw Mill, of meeting these demands, and consequently obtaining that support from the Public Works Department which an Establishment like this needs, for it was well known (and when the subsequent working of the concern showed) that this department must [illegible] the Public Works support. This with the causes shown in para 7, has necessitated an increase in the rates charged for work done, and which (as [illegible] [illegible])

has given rise to the prevalent opinion of the excessive high rates obtaining for work done by the Workshops, the result being a falling off in those demands that could be supplied, and the consequent loss sustained in the operations of the Workshops as shown in the Controller's letter.

13. To remedy this in part, by erecting Sawmills, a large Vertical Sawing frame and Circular Sawing Tables, the property of the late Saw Mills Company, was purchased and paid for by the Workshops in April last for Rupees 1000, and to set these Machines up for working, it will be necessary to connect them with a 20 H.P. Engine (already in place and belonging to the Workshops, but not in use) to do this it will be necessary to make a small embanked roadway and turn-table a distance of about 40 feet, (the cost of which and subsequent erection of the Sawing frame will amount to about Rupees 2000) which I trust Government will be pleased to authorize the Superintending Engineer 4th Division to carry out. The early working of the Saw Mills would enable the Workshops to realize a profit in the current year by the sale of cut timber.

In the foregoing I have endeavoured

to please the causes of loss in the
Circulation of the Publicks and
Value the Receivers, the Currency
out of which Slight, Generality
will be pleased to Cancelon
& have the Notes to be
Sir
Your most Obedient and

J. H. Gallegos
Gen Agent Publicks Credits &c

No 2376 A

In Proceedings
dated 28th June 1871
No 1725, the Govern
ment in reviewing the
Selection of the Original
Norfolk Memorial
that as the Institution
was not sustaining
that self supporting
Character which was
contemplated by its
Establishment it
was necessary to

to place the causes of loss in the
Appraisement of the Buildings and
also the accidents, the occurrence
of which, Slight, Government
will be pleased to indicate
whether the Insurance

Rs 15 Glass 114 @ 12-8 = 13-8
2 Cofr = 3-0
21 Sqft = 0-12
2 Sheet Iron = 1-12
25 Nails = 0-12
= 4-4-0

No 1571 dated
the 7th October 1871
No 3357.
Government Secretariat
Fort St George

Agd.

LDS

does know if the
Insurance which was
taken on the buildings
now belonging to the
Govt has been
taken off or not

Government referred
to Collector's letter
No 2376/69 dated 7th
Oct 1871 & stated that
the causes of the loss
of the buildings
were only those
included under loss
by Storm & Tempest

No 2376/69 dated 7/10/71

Agd.

to consider what

measures were calculated to improve the financial position, and with this view they stated that they would be glad to receive any proposals which the Superintendent of Public Works, Store and Work shops might wish to make. The letter recorded at the head of these proceedings is Mr Grant's reply

The Workshops are divided into three Departments namely (1) the Locomotive Department (2) the Carriage Department & (3) the Foundry and the Accounts of each are separately kept.

The results of the working of each Department are detailed in Statement A appended hereto for the year 1870-71 as far as the Mechanical Department is concerned. The loss in the Instrument Department is attributed to the high salary (Rs. 500)

Foundry & Appliances? It was desired to see the Foundry, but as for the rest private

change.

of the Mathematical
Instrument Maker, Mr. Gravesande
Brewing to the Inspection
the Examiner of Mathematical
Constitution, civil-looking
to the extent to which
the services of such Student
are utilizable in the repair
of Government stores,
& Mr. Granger suggests
that a moiety of the
salary of the Mathematical
Instrument Maker
be debited to the Army
allotment in Part
V of the Budget.

Mr. Doherty
services being very valuable
to the Depts in the
saving

saving by timely repair
of expensive scientific
instruments which
would otherwise have
to be sent to England
or the Continent at trifles,
are necessarily costly,
and the Government
fully recognizing the
difficulty of apportioning
his salary to the
work actually done
by him, as well as to
the circumstances that
part of his services
may fairly be
charged to the Stores
Department in
consideration of

his services in keeping
the scientific instruments
which are in store
in serviceable order
and of opinion that
it is equitable & reasonable
to debit one moiety
of Mr Dodwell's salary
to the Survey allotment,
and the other to the
Mathematical Instrument
Depôt, the accounts
of which it appears
to His Excellency the
Governor in Council
might be advantageously

amalgamated with
future with the
Mechanical Depôt.

In paras 8 to 11
the General Superintendent points out
that interest on a
suitable annual depreciation
on Block and Plant
in the operations of the
Foundry have formed
heavy items of charge
on the profits, and he
considers that if the
Agreement entered
into with Mr Dillon to
for working the Foundry
be concluded, the
branches of the Workshops
be worked with

with much advantage.

Mr. Grainger adds that Mr. Doyle has provided himself with a Foundry at Workhouse at present to the Government that the time has arrived when Mr. Doyle's contract for working the Foundry might be terminated, and the Public Works Workshop be allowed to derive the advantage of the Profit on Casting which legitimately belongs to it, and the necessary steps will be taken to terminate the said Contract by the end of the Current Official year.

Finally the Supt. Superintendent recommends that the vertical sawing frame and circular sawing Table which were purchased by the Workhouse in April last should be transferred to the Public Works Depôt in order that all the necessary elements of the Public Works Depôt may be more effectively and economically met. To effect the object in view Mr. Grainger recommends that it will be

necessary to connect
the Machines with
a 20 H. P. Engine
at present in position
at the Workshop, and
that this will necessitate
the removal of a small
timber Road-way
the cost of which in
cluding the erection
of the sawing frame
is estimated at Rs.
2000 -

The Government
assistance of the work
necessary to be done
for setting up the Saw
Mill which they think

steps

might be worked to
great advantage
in cutting up timber
into useful scantlings
for various purposes
and so saving the carriage
of the wood from
Madras to many up
country Stations

As the balance of
the Provincial Revenue
at the disposal of this
Deptt under Civil
Buildings is very small
it will be considered in
the Financial Deptt
whether a sum of Rs.
2000 can be specially
provided for the work.
If funds be not
forthcoming this year

the necessary provision
will be made in the
Budget of the ensuing
official year -

Yr Aug: Yr.

the necessary provisio
will be made in the
Budget of the ensuing
official year -

Aug. 30 P.

No. 3357:

Govt of {1871} Madras.

PUBLIC WORKS.

To Her Honorable Superintendent of Harbours and Workshops

Dated

Rec.d

29 Sept. 2376 A

Nos. 2918 & 2918 B

Workshops. Covering a letter from the Executive Engr. Mattan & Workshops submitting a statement showing the Cause of the loss on the operations of the Workshops transferred to Carts & Cundies to obviate further loss

Dec.r 27/[illegible]