[E.]

S00—17-12-02.

Educational (1904) Department.

ORDINARY MS.

G.O., No. 658

DATED 5. 11. 04

INDEXED

(12)

[Despatch Abstract.]

Schools of Arts.

Declining with remarks to forward for the sanction of the Secy of State the indents for machine tools required for the Carpentry & metal work Dept of the ——.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

[L. & M. 55]
200—23-5-06.

Education
LOCAL AND MUNICIPAL DEPARTMENT.

CURRENT FILE.

SECRETARY TO GOVT
12 SEP 1906
LOCAL & MUNICIPAL DEPT

Stock Form No. 127
2,000—12-2-03.

Educational (1904) Department.

2

SECRETARY TO GOVERNMENT
17 AUG 1904
LOCAL & MUNICIPAL DEPARTMENT.

CURRENT No. 1470

From

[Name] The Hon'ble Mr. A.G. Bourne, D.Sc., F.R.S.,

[Designation] Director of Public Instruction,

[Station] M a d r a s .

No. Cur No. 5119 of 04

Dated 13th August 1904.

Enclosures Indents.

Received 17- 8- 1904.

Registered 18- 8- 1904

SUBJECT.

Submitting, in duplicate, two indents for machine tools required for the carpentry and metal work departments of the School of Arts, Madras.

BACK PAPERS.

FURTHER PAPERS.

2

To

The Secretary to Government,

Educational Department.

Sir,

I have the honour to submit, in duplicate, two indents for machine tools required for the carpentry and metal work departments of the School of Arts and to request that they may be forwarded to the Secretary of State for very early sanction.

2. The acting Superintendent reports that the machine tools included in these indents are such as should be provided for the leading Industrial Institution in the Presidency. They are needed in every workshop. Some of them-the wood turning lathes for instance- are absolutely necessary if the apprentices are to be taught the subjects prescribed for the Government Technical Examinations.

3. The acting Superintendent further states that the selection of the machine tools was approved by Mr. Chatterton before he went on leave and suggests that the Director-General of Stores, India Office, be asked to leave their actual selection to Mr. Chatterton.

4. The cost of the indents may be met from the provision made for the school in the current year's budget.

5. Six spare copies of the indents are also forwarded for transmission to the Director-General of Stores.

I have the honour to be,

S i r,

Your most obedient servant,

12-8-10.

S. Satthianadhan

for Director of Public Instruction.

Indent on Stores required for the School of Arts, Madras.

MADRAS EDUCATIONAL DEPARTMENT.

Indent No. , *dated* *May* 1904.

Telegraphic Code-word _____ _____

Revenues and Imperial Head of Account of Grant to which cost is chargeable :—

PROVINCIAL.

Date when the Stores are required to reach India :—

October 1904.

Port to which the stores are to be shipped :—

MADRAS.

(The necessary certificates, if any, as required by existing regulations, to be inserted below).

N.B.—This page is intended for use in the India Office only.

Item No.	Description of Stores	Number or quantity.	Estimated cost. Rate. £.	s.	d.	Unit.	Cost. £.	s.	d.	Remarks by indenting officer.	Name of contractor.	Date of contract.	Actual cost. £	s.	d.
	Metal Work Department, School of Arts, Madras.														
1	High class, self-acting, sliding, surfacing and screw cutting gap lathe, $7\frac{1}{2}$″ centre, length of bed 8 feet.	..	..	..	..	..	57	0	0						
	Set of turning tools for the above	..	..	..	..	..	5	0	0						
2	Improved, self-acting, shaping machines with central action, 12″ stroke, 3' 6″ bed	..	..	..	..	..	62	0	0						
3	Self-acting, milling and grooving machine, horizontal traverse, 19″, longitudinal traverse 8″	..	..	..	..	..	85	0	0						
	Dividing apparatus for the above	..	..	..	..	..	5	0	0						
	Parallel vice	..	..	..	..	..	4	10	0						
	Milling cutters for above	..	..	..	..	..	5	0	0						
4	Strong pillar, Drilling machine (Power) with double gearing	..	..	..	..	..	31	0	0						
	Diameter of steel spindle, $1\frac{3}{4}$″	..	..	..	..	..	..		..						
	Drills up to 2″	..	..	..	..	..	..	..	..						
	,, in depth 7″	..	..	..	..	..	..	..	..						
	A set of spiral and plain dulls, rimers for the above, say	..	..	..	..	..	5	0	0						
5	Brass finisher's lathe, 7″ centre, 5' straight bed ..	..	..	..	..	..	100	0	0						
	Extra slide rest, say	..	..	..	..	..	10	0	0						
	Total ..	..	..	..	..	..	369	10	0						

Can be procured from the Britania Company, Colchester.

5542-8

Madras,
6th August 1904.

S. Subramaniam
For Director of Public Instruction.

(Signature) G R Evans
Acting Superintendent.

3690
1545
7-8

Indent on Stores required for the School of Arts, Madras.

DIRECTOR OF PUBLIC INSTRUCTION
RECEIVED
29 AUG 1904
O. No.....
MADRAS.

MADRAS EDUCATIONAL DEPARTMENT.

Indent No. , *dated* *May* 1904.

Telegraphic Code-word_____

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	Wood-work Department, School of Arts, Madras.		£ s. d		£ r. d.				£ s. d.
1	Horizontal single bladed saw frame No. 3 to cut long 36″ × 24 feet	..	.. .. ..	..	280 0 0				
	Spare saws	..	.. .. ..	..	20 0 0				
2									
	Endless band sawing Machine No. 1	..	.. .. ..	..	45 0 0				
	Spare saws	..	.. .. ..	..	10 0 0				
3	Band saw, sharpening and setting machine ..	..	.. .. ..	..	20 0 0				
4	Two lathe head stocks, 7″ centre	..	.. .. ..	..	24 0 0				
5	Gap lathe for wood turning, 9″ centre, bed 14′ long.	..	.. ..	..	52 10 0				
6	Horizontal boring and slot mortising machine ..	..	.. .. ..	..	40 0 0				
	Tools, &c.	..	.. .. ..	..	15 0 0				
7	Hand feed, planing and surfacing machine No. 3 ..	..	.. .. ..	..	30 0 0				
	Tools, &c.	..	.. .. ..	..	15 0 0				
	Total ..		.. .. ..	..	551 10 0				

Can be procured from Messrs. Thomas Robinson and Son (limited) Rochedale.

82-72-8

MADRAS,
6th August 1904.

S. Subramaniam
For Director of Public Instruction.

G. R. Brand
Ag Superintendent.

5510
2755 7-8

Indent on Stores required for the School of Arts, Madras.

MADRAS EDUCATIONAL DEPARTMENT.

Indent No. , *dated* *May* 1904.

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1	High class, self-acting, sliding, surfacing and screw cutting gap lathe, $7\frac{1}{2}$″ centre, length of bed 8 feet.	..	..	..	..	..	57	0	0						
	Set of turning tools for the above	..	..	..	..	..	5	0	0						
2	Improved, self-acting, shaping machines with central action, 12″ stroke, 5′ 6″ bed	..	..	..	..	..	62	0	0						
3	Self-acting, milling and grooving machine, horizontal traverse, 19″, longitudinal traverse 8″	..	..	..	..	..	85	0	0						
	Dividing apparatus for the above	..	..	..	..	..	5	0	0						
	Parallel vice	..	..	..	..	..	4	10	0						
	Milling cutters for above	..	..	..	..	..	5	0	0						
4	Strong pillar, Drilling machine (Power) with double gearing	..	..	..	..	..	31	0	0						
	Diameter of steel spindle, $1\frac{3}{4}$″	..	..	..	..	..	..		..						
	Drills up to 2″	..	..	..	..	..	..	..	..						
	„ in depth 7″	..	..	..	..	..	..	..	..						
	A set of spiral and plain dulls, rimers for the above, say	..	..	..	..	..	5	0	0						
5	Brass finisher's lathe, 7″ centre, 5′ straight bed ..	..	..	..	..	..	100	0	0						
	Extra slide rest, say	..	..	..	..	..	10	0	0						
	Total ..	..	..	..	..	..	369	10	0						

Can be procured from the Britta Company, Colchester.

Madras,
6th August 1904.

G. Sathianadhan
for Director of Public Instruction.

(Signature) G. R. Arunachalam
Acting Superintendent.

5

Indent on Stores required for the School of Arts, Madras.

MADRAS EDUCATIONAL DEPARTMENT.

Indent No. , *dated* *May* 1904.

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	Wood-work Department, School of Arts, Madras.														
1	Horizontal single bladed saw frame No. 3 to cut long 36″ × 24 feet	..	..	..	..	..	280	0	0						
	Spare saws	..	..	..	..	..	20	0	0						
2															
	Endless band sawing Machine No. 1	..	..	..	..	..	45	0	0						
	Spare saws	..	..	..	..	..	10	0	0						
3	Band saw, sharpening and setting machine ..	..	..	..	..	..	20	0	0						
4	Two lathe head stocks, 7″ centre	..	..	..	..	..	24	0	0						
5	Gap lathe for wood turning, 9″ centre, bed 14′ long.	..	..		..	..	52	10	0						
6	Horizontal boring and slot mortising machine ..	..	..	..	..	..	40	0	0						
	Tools, &c.	..	..	..	..	..	15	0	0						
7	Hand feed, planing and surfacing machine No. 3 ..	..	..	..	..	..	30	0	0						
	Tools, &c.	..	..	..	..	..	15	0	0						
	Total ..		..	..	..	..	551	10	0						

Can be procured from Messrs. Thomas Robinson and Son (limited) Rochedale.

MADRAS,
1th August 1904.

E. Satthianadhan
For Director of Public Instruction.

G. R. Brand
Ag Superintendent.

Indent on Stores required for the School of Arts, Madras.

MADRAS EDUCATIONAL DEPARTMENT.

Indent No. , *dated* *May* 1904.

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October 1904.

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	Tools, &c.	..	..	..	..	..	15	0	0	
	Total ..		..	..	..	..	551	10	0	

Can be procured from Messrs. Thomas Robinson and Son (limited) Rochedale.

Madras,
6th August 1904.

for Director of Public Instruction.

G E Brand
Ag Superintendent.

N.B.—This page is intended for use in the India Office only.

Name of contractor.	Date of contract.	Actual cost. £	s.	d.

Indent on Stores required for the School of Arts, Madras.

MADRAS EDUCATIONAL DEPARTMENT.

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Madras,
6th August 1904.

for Director of Public Instruction.

G R Bruce
Ag Superintendent.

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	Tools, &c.	..	..	..	..	..	15	0	0	
	Total ..		..	..	..	..	551	10	0	

Can be procured from Messrs. Thomas Robinson and Son (limited) Rochedale.

MADRAS,
9th august 1904.

for Director of Public Instruction.

G R Bruce
Ag Superintendent.

N.B.—This page is intended for use in the India Office only.

Name of contractor.	Date of contract.	Actual cost. £	s.	d.

Indent on Stores required for the School of Arts, Madras.

MADRAS EDUCATIONAL DEPARTMENT.

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Can be procured from Messrs. Thomas Robinson and Son (limited) Rochedale.

MADRAS,
6th August 1904.

for Director of Public Instruction.

G B S Brunel
Ag Superintendent.

Indent on Stores required for the School of Arts, Madras.

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MADRAS,
6th August 1904.

For Director of Public Instruction.

G H S Bruce
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4	Strong pillar, Drilling machine (Power) with double gearing	..	..	..	31 0 0				
	Diameter of steel spindle, $1\frac{3}{4}$"	..	..	..	.. ..				
	Drills up to 2"	..	..	..	.. ..				
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	A set of spiral and plain dulls, rimers for the above, say	..	..	..	5 0 0				
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MADRAS,
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For Director of Public Instruction.

(Signature) G. L. Bruna
Acting Superintendent.

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MADRAS EDUCATIONAL DEPARTMENT.

Indent No. , *dated* *May* 1904.

Telegraphic Code-word_____

Revenues and Imperial Head of Account of Grant to which cost is chargeable :—

PROVINCIAL.

Date when the Stores are required to reach India :—

October 1904.

Port to which the stores are to be shipped : —

MADRAS.

(The necessary certificates, if any, as required by existing regulations, to be inserted below).

N.B.—This page is intended for use in the India Office only.

Item No.	Description of Stores	Number or quantity.	Estimated cost. Rate.	Unit.	Cost.	Remarks by indenting officer.	Name of contractor.	Date of contract.	Actual cost.
	Metal Work Department, School of Arts, Madras.		£. s. d.		£. s. d.				£ s. d.
1	High class, self-acting, sliding, surfacing and screw cutting gap lathe, $7\frac{1}{2}$″ centre, length of bed 8 feet.	..	..	..	57 0 0				
	Set of turning tools for the above	..	..	..	5 0 0				
2	Improved, self-acting, shaping machines with central action, 12″ stroke, 5′ 6″ bed	..	..	..	62 0 0				
3	Self-acting, milling and grooving machine, horizontal traverse, 19″, longitudinal traverse 8″	..	..	..	85 0 0				
	Dividing apparatus for the above	..	..	..	5 0 0				
	Parallel vice	..	..	..	4 10 0				
	Milling cutters for above	..	..	..	5 0 0				
4	Strong pillar, Drilling machine (Power) with double gearing	..	..	..	31 0 0				
	Diameter of steel spindle, $1\frac{3}{4}$″	..	..	..	.. ..				
	Drills up to 2″	..	..	..	.. .. ..				
	„ in depth 7″	..	..	..	.. .. ..				
	A set of spiral and plain dulls, rimers for the above, say	..	..	..	5 0 0				
5	Brass finisher's lathe, 7″ centre, 5′ straight bed ..	..	..	..	100 0 0				
	Extra slide rest, say	..	..	..	10 0 0				
	Total ..	..	..	..	369 10 0				

Can be procured from the Brittania Company, Colchester.

MADRAS,
6th August 1904.

For Director of Public Instruction.

(Signature) G R S Brund
Acting Superintendent.

Indent on Stores required for the School of Arts, Madras.

MADRAS EDUCATIONAL DEPARTMENT.

Indent No. , *dated* *May* 1904.

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	Metal Work Department, School of Arts, Madras.														
1	High class, self-acting, sliding, surfacing and screw cutting gap lathe, $7\frac{1}{2}$″ centre, length of bed 8 feet.	..	..	..	..	..	57	0	0						
	Set of turning tools for the above	..	..	..	..	..	5	0	0						
2	Improved, self-acting, shaping machines with central action, 12″ stroke, 5′ 6″ bed	..	..	..	..	..	62	0	0						
3	Self-acting, milling and grooving machine, horizontal traverse, 19″, longitudinal traverse 8″	..	..	..	..	..	85	0	0						
	Dividing apparatus for the above	..	..	..	..	..	5	0	0						
	Parallel vice	..	..	..	..	..	4	10	0						
	Milling cutters for above	..	..	..	..	..	5	0	0						
4	Strong pillar, Drilling machine (Power) with double gearing	..	..	..	..	..	31	0	0						
	Diameter of steel spindle, $1\frac{3}{4}$″	..	..	..	..	..	..		..						
	Drills up to 2″	..	..	..	..	..	..	..	..						
	„ in depth 7″	..	..	..	..	..	..	..	..						
	A set of spiral and plain dulls, rimers for the above, say	..	..	..	..	..	5	0	0						
5	Brass finisher's lathe, 7″ centre, 5′ straight bed ..	..	..	..	..	..	100	0	0						
	Extra slide rest, say	..	..	..	..	..	10	0	0						
	Total ..	..	..	..	..	..	369	10	0						

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Madras,
6th August 1904.

For Director of Public Instruction.

(Signature) G R Corbould
Acting Superintendent.

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	Metal Work Department, School of Arts, Madras.														
1	High class, self-acting, sliding, surfacing and screw cutting gap lathe, 7½″ centre, length of bed 8 feet.	..	..	..	..	..	57	0	0						
	Set of turning tools for the above	..	..	..	..	..	5	0	0						
2	Improved, self-acting, shaping machines with central action, 12″ stroke, 3′ 6″ bed	..	..	..	..	..	62	0	0						
3	Self-acting, milling and grooving machine, horizontal traverse, 19″, longitudinal traverse 8″	..	..	..	..	..	85	0	0						
	Dividing apparatus for the above	..	..	..	..	..	5	0	0						
	Parallel vice	..	..	..	..	..	4	10	0						
	Milling cutters for above	..	..	..	..	..	5	0	0						
4	Strong pillar, Drilling machine (Power) with double gearing	..	..	..	..	..	31	0	0						
	Diameter of steel spindle, 1¾″	..	..	..	..	..	..		..						
	Drills up to 2″	..	..	..	..	..	..	..	..						
	„ in depth 7″	..	..	..	..	..	..	..	..						
	A set of spiral and plain dulls, rimers for the above, say	..	..	..	..	..	5	0	0						
5	Brass finisher's lathe, 7″ centre, 5′ straight bed ..	..	..	..	..	..	100	0	0						
	Extra slide rest, say	..	..	..	..	..	10	0	0						
	Total		..	..	..	..	369	10	0						

Can be procured from the Britania Company, Colchester.

MADRAS,
6th August 1904.

For Director of Public Instruction.

(Signature) G R S Brand
Acting Superintendent.

Indent on Stores required for the School of Arts, Madras.

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	Metal Work Department, School of Arts, Madras.		£. s. d.		£. s. d.				£ s. d.
1	High class, self-acting, sliding, surfacing and screw cutting gap lathe, $7\frac{1}{2}$″ centre, length of bed 8 feet.	..	.. .. ..	..	57 0 0				
	Set of turning tools for the above	..	.. .. ..	..	5 0 0				
2	Improved, self-acting, shaping machines with central action, 12″ stroke, 3′ 6″ bed	..	.. .. ..	..	62 0 0				
3	Self-acting, milling and grooving machine, horizontal traverse, 19″, longitudinal traverse 8″	..	.. .. ..	..	85 0 0				
	Dividing apparatus for the above	..	.. .. ..	..	5 0 0				
	Parallel vice	..	.. .. ..	..	4 10 0				
	Milling cutters for above	..	.. .. ..	..	5 0 0				
4	Strong pillar, Drilling machine (Power) with double gearing	..	.. .. ..	..	31 0 0				
	Diameter of steel spindle, $1\frac{3}{4}$″	..	.. .. ..	..	.. ..				
	Drills up to 2″	..	.. .. ..	..	.. .. ..				
	„ in depth 7″	..	.. .. ..	..	.. .. ..				
	A set of spiral and plain dulls, rimers for the above, say	..	.. .. ..	..	5 0 0				
5	Brass finisher's lathe, 7″ centre, 5′ straight bed ..	..	.. .. ..	..	100 0 0				
	Extra slide rest, say	..	.. .. ..	..	10 0 0				
	Total ..	..	.. .. ..	..	369 10 0				

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MADRAS,
6th August 1904.

for Director of Public Instruction.

(Signature) G. L. Brand
Acting Superintendent.

Indent on Stores required for the School of Arts, Madras.

MADRAS EDUCATIONAL DEPARTMENT.

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	Metal Work Department, School of Arts, Madras.														
1	High class, self-acting, sliding, surfacing and screw cutting gap lathe, $7\frac{1}{2}$″ centre, length of bed 8 feet.	..	..	..	..	..	57	0	0						
	Set of turning tools for the above	..	..	..	..	..	5	0	0						
2	Improved, self-acting, shaping machines with central action, 12″ stroke, 5′ 6″ bed	..	..	..	..	..	62	0	0						
3	Self-acting, milling and grooving machine, horizontal traverse, 19″, longitudinal traverse 8″	..	..	..	..	..	85	0	0						
	Dividing apparatus for the above	..	..	..	..	..	5	0	0						
	Parallel vice	..	..	..	..	..	4	10	0						
	Milling cutters for above	..	..	..	..	..	5	0	0						
4	Strong pillar, Drilling machine (Power) with double gearing	..	..	..	..	..	31	0	0						
	Diameter of steel spindle, $1\frac{3}{4}$″	..	..	..	..	..	..		..						
	Drills up to 2″	..	..	..	..	..	..	..	..						
	„ in depth 7″	..	..	..	..	..	..	..	..						
	A set of spiral and plain dulls, rimers for the above, say	..	..	..	..	..	5	0	0						
5	Brass finisher's lathe, 7″ centre, 5′ straight bed ..	..	..	..	..	..	100	0	0						
	Extra slide rest, say	..	..	..	..	..	10	0	0						
	Total ..	..	..	..	..	..	369	10	0						

Can be procured from the Britannia Company, Colchester.

Madras,
6th August 1904.

for Director of Public Instruction.

(Signature) G. H. Brandt
Acting Superintendent.

[E. / 2]

1,500—7-10-03.

EDUCATIONAL DEPARTMENT.

7

C. No. 1470 From the D.P.I. No 5119, dated 13-8- 1904.

SUBJECT.

Indent for stores required for the School of Arts.

The Director forwards two indents

(1) for stores costing £ 369-10-4 (Rs 5,542-8-4) required for the metal work Departt of

(2) for stores costing £ 551-10-4 (Rs 8,272-8-4) required for the wood work (Carpentry) Departt of the School of Arts.

He states that the machine tools included in these indents are needed in every workshop and are such as should be provided for the leading industrial institution in the Presidency.

2. The Director says also that the cost of the indents may be met from the provision made for the School in the current year's budget. The provision for tools & plant in the budget estimates of the metal work and the Carpentry departts is Rs 5,000 in each case. G.O. No 919 Fin dd 23rd December 1903 - but there will probably be savings under other heads from which the excess required, Rs 542-8-4 in the one case & Rs 3272-8 in the other, can be met. The Director may however be asked whether there will be savings to this extent.

A.

3. Orders are solicited as to whether the indents can be sent on. Nothing has as yet been definitely settled regarding the future of the School of Arts. The scheme submitted by the Director for its reorganization has been hung up pending final

final orders on the question of industrial Education - Govt. no 46 & 201 dt 22nd August 1901 & no 614 201 dt 4th October 1902. The Govt. of India's resolution on the subject of industrial Education, with the Director's remarks thereon, is now with the Govt. As soon as this question is settled that of the re-organization of the School of Arts will be taken up. Would it not be well to send these indents for costly machinery after the question of re-organization has been settled? Paragraph 32 of the resolution of the Govt. of India on their Educational policy in Govt. Nos 215-216 201 dt 6th April 1904, however, allows of art industries capable of being carried on in the localities in which a School of Arts is situated being taught. There may then be no objection to the continuance of the metal work & Carpentry departts of the School in Madras but the necessity for the machinery now indented for will depend on the extent to which instruction in these art industries is to be imparted and this will no doubt be one of the points for consideration in connection with the scheme of re-organization.

Have the Government any intention of abolishing the carpentry and metal-work classes at the School of Arts? If they have none, submitted that the indents should not be delayed.

H 23-8-4

The indents amount to nearly Rs 40000 - - provide mainly for lathes and other machinery which will have a long life. Whether or no they are required will depend on the future of the school of Arts

H 24-8-04

Ask the D.P.I. (C) whether single examples of the high class machines indented for in the indent (2) be sufficient for teaching the instruction of the students & whether it would be better to substitute several machines of a lower class & less expensive. Only a very small fraction of the students can ever hope to use in their future career machines of the kind specified

The Supt has been led away a good deal I think by the position of the School as the "leading Industrial Institution" in the Pry.

We must walk before we can run: & it seems to me

that the amount of the indent might be more usefully spent in less ambitious machinery & at a great reduction on the total. Indeed the machinery in question is more suited for the Engg. College

S.T.
24/8

Edl. no. 414 DS/24/8/4
DS/24/8/4

DS 2 no.

Ldn no. 40 / 10-9-04

HDS / 26-8-04

I find it difficult to express an opinion. I submitted a proposal to Government recommending that steps should be taken to secure a Superintendent who would develop Art industries in the School. But Chatterton wishes to show what can be done by the aid of machinery. In the wood-work department the new machines costing £376 are to be used for preparing material and would doubtless effect considerable economy in much wood-work is to be done. The other machines for this department and those for the metal-work department seem to me to contemplate work on a Commercial Scale

art. 9

Although I do not merely consider this desirable in a technical School such as in a School of Art - Government has appointed a Superintendent whose avowed policy runs upon these lines and it seems to me that the question now is not what course is theoretically best but what is likely to lead to any practical result whatever - If the machines are obtained but Chatterton may be relied upon to do something with them if they are not he is probably right that he cannot do anything without machinery - If a time comes when they are no longer wanted at the School of Art they may be usefully transferred elsewhere

No doubt commercially S.T.

Yes - but where? I fear the expenditure might be almost entirely wasted. HDS 12/9/04.

H.E.M. 9.9.4

Remitted to the Hon Secretary HDS 9/9/04

I agree with Dr Bourne when he says that he does not consider it desirable that machinery to be purchased in contemplation of work on a commercial scale. I have no doubt Mr Chatterton

would make excellent use of it in that direction. But besides our not having W Charleston always with us the object we must keep in view is the technical & industrial instruction of the ~~greatest~~ greatest number. How many of the pupils can ever hope to employ machinery ~~from four thousand to fifteen hundred pounds~~ costing £1000. The theoretical & practical use of such machinery can be taught on much simpler machines. If they are so instructed they find ready employment in Shops where refined machinery is used as in the Railway Workshops.

I do ask the D.P.I to revise the indents which as presented read £800 etg

(a) Under Metalworking by striking out the all facing machinery Nos 2, 3, & 4 substituting for No.5 the "Brass finishers" lathe a cheaper variety

(b) Under Carp Wood work No 1 (costing £300) – also the band sawing machinery (2) & (3) – these may be labour saving but

10

they planks it can be obtained without them; I ask that for 4–7 shd be substituted machinery of an educational & not merely a commercial value.

Point out that the indents shd not in the remarks column mention the names of firms; that it is against orders, which please quote. (It is extraordinary – or perhaps not extraordinary – how persistent Superintendents are in citing names of firms. There is no thing whatever special about the machinery indented for & in Mechanical journals which I take in, there are a hundred firms advertising precisely identical machinery of the kind)

8.7.11/09

The Hon Mr. Stokes has asked if another connection that important papers connected with the School of Arts should be circulated to him. This file is circulated accordingly

The Hon. Mr. Stokes cs 9.

HDB
13/10/09

I think it w^d be better to postpone them
indefinitely but to revise them. The machinery
in the Metal Working Dept is wanted to
do work which can not be done by hand
E.g. the Shaping & Milling Machines. Also
the Lathes No 1. is wanted to do work which
can not be done in any other way. That all
these machines are very large & heavy
machines. They are only likely to be wanted for heavy work
occasionally in the School by Boys: It w^d be
better I think to await Mr. Chatterton's
return and let him explain the necessity
for them. It must be remembered too that
though they can do heavy work they can
also do light and every one of them is wanted to
do things which are constantly needed in
every workshop. A man can cut a slot
but he will probably cut it crooked and
take days over it & spoil the work: the
machine will cut it in a few hours & do it
straight. No teaching will ever make the
man to do it right.

As to the wood cutting & machinery there
must be an immense amount of rough
cutting to be done but how again the
machines seem capable of very heavy work
I think this indent too might be postponed
till we can hear Mr. Chatterton.

H.
13/11/4.

Honourable Members.

11 H.O.B.
14-10-04.

I talked over the matter with
Mr Hamilton Stokes today & agree
with him that the indents
~~for~~ be postponed till Mr
Chattertons return

I quite understand that the
machines are labour saving
machines & of great value
as such & w^d prove economical
if the School is to be conducted
on commercial lines & on
a large scale.

But the q^n is whether
that is the proper end of
the School, & whether it should
not be conducted on
lines which will afford more
practical educational advantages
within the horizon of the
pupils. In this view I am
not convinced that machinery
costing £12 000 w^d be procured
in addition to the machinery
already there. Even a coat must
be cut to the cloth: & in the
present state of the country
the money w^d I imagine be

more usefully & justifiably spent in other educational directions & I have no doubt Mr Chatterton will find excellent reasons for the indent, but they will be commercial & of the shop, & not of practical education of people who have to be taught industrially, had to walk before they run.

S.F. 15/10

As it will not be possible to utilise the Budget provision for the current year after Mr. Chatterton's return, it appears desirable to communicate the present order to D.P.I. so that he can arrange for reappropriation of other sums, and for making the necessary provision in next year's budget. Please

draft for approval. Mr. S. D.P.I.

The draft placed below is submitted for approval.

Sec. 22/10/4

Mr 22/10/4

25/10/04 HM.

2/11

5/11/04

EDUCATIONAL DEPARTMENT.

12

READ AGAIN G.O., No. ..... , dated ..... 190 .

" " " " ..... , " ..... 190 .

READ ALSO:—

C. No. 1470, From the D. P. I. , No. 5119 , dated 13 — 8 — 1904.

" " ..... , " " ..... , " ..... , " 190

" " ..... , " " ..... , " ..... , " 190

ORDER No. 658, dated 5. 11. 1904.

mis.

~~The Government consider that~~ The indents received with the Director's letter read above ~~will~~ should be kept back pending Mr. Chatterton's return from leave.

2. As it will not be possible to utilize the whole of the grant for the metal work and Carpentry Departments of the school of arts during the current year the Director should submit proposals for re-appropriation

re-appropriation or surrender-
of the amounts not required
by him.

H
22.10.14

H
22/10/14

Do.
Rec'd D.P.I. 22.10.

Despd
8/11/14

When given for copying ——
When copied ——
When examined ——
When signed ——
} 190 .

READ AGAIN G.O., No. 190 , DATED

CURRENT No.

ENCLOSURES TO C. No.

ORDER OF GOVERNMENT	A	A	A	A	A	A	A
LETTER OF GOVERNMENT.							
STATEMENT WITH DITTO.							
PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH IN ORIGINAL.							

N.B.—
A = Copy in full.
B = Not to be copied.
P = Copy abstract only.
Q = Copy heading only.