M.R.O. 1—77,006—8-6-37.

3062

(1) Number of pages 20

(2) Date of repair 4.1.44

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 3062 Press ~~Mis.~~

414-15

Dated 22. 12 1862.

Not to be folded or roughly handled

No. 414. Read the following letter from Colonel W. I. BIRDWOOD, R. E., Chief Engineer, to the Secretary to Government, Public Works Department, dated Chepauk, 27th November 1862, No. 4,418:—

SIR,

No. 15, dated 14th November 1862.
„ 2,341, „ 20th December 1861.

1. I have the honor to furnish the report called for by Government in their Orders noted in the margin.

2. Attached to this is a Statement showing the various articles of machinery lying useless in each District.

3. Judging from the opinions of the District Engineers, it appears that this large quantity of machinery was procured from England in the confident expectation that Public Works in this Presidency would be prosecuted on a much larger scale than they previously had been. On this ground only can this large importation of such valuable stores be at all justified.

4. The expense having already been incurred, it is impossible now to remedy the evil, all that can now be done is to prevent any more needless outlay on account of machinery. I strongly recommend, therefore, that all articles which have already been despatched up-country be kept there under the charge of District Engineers, and not be returned to Madras where the sea air will rapidly deteriorate them. Even if the articles were now in Madras they must be exposed to the effects of both wind and weather, as there is not storage room for more than the number we already have on our hands.

5. I have but little doubt that this want of storage room accounts in part for so much machinery lying useless up-country; it was sent away because it could not be cared for here and *might* be turned to profitable account in the Districts.

6. I consider it my duty, here, to recommend that if more machinery be procured from England more accommodation be at once built for it. Our present Store-rooms are very far from what they should be. White ants already infest the rooms in Chepauk, and those at Abercombie's Battery have no side walls, in fact they are open sheds and they afford no security whatever.

Statement of the Machinery lying useless in several Districts of the Department Public Works.

Names of Articles.	Ganjam.	Vizagapatam.	Nellore.	Kurnool.	Madras.	North Arcot.	South Arcot.	Tanjore.	Trichinopoly.	Madura.	Tinnevelly.	Coimbatore.	Salem.	South Canara.	Malabar.	Presidency.	Total.	Amount.			
																		Rs.	A.	P.	
Machines, Brick-making ...	...	...	4	...	1	...	...	...	...	1	...	...	2	...	...	6	14	13,251	0	4	
,, Tile-making ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	Price not known			
,, Punching and Shearing ...	1	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	3	2,487	1	6	
,, Weighing ...	1	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	3	940	2	0	
,, Drilling ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	300	0	0	
,, Pile Driving ...	...	...	...	...	...	2	...	...	...	1	...	...	1	...	...	*2	6	85	9	11	*One of each of these is of 7"
Blocks, single brass Sheave 6"	...	...	...	...	...	1	...	...	...	1	...	...	1	...	...	*2	5	84	0	4	
,, Double do. do. 6"	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	*2	3	59	8	4	
,, Treble do. do. 6"	...	...	...	...	...	3	...	1	...	1	...	...	2	...	...	1	7	201	2	6	
,, Snach do. do. 14"	...	...	...	...	...	...	1	1	...	1	...	...	...	...	1	1	5	1,691	1	1	
Crabs, souble	...	...	...	...	...	3	...	...	...	1	1	...	...	1	1	2	7	1,014	10	2	
,, single	...	...	...	...	...	4	...	1	1	...	3	...	...	...	...	1	13	13,935	10	5	
Cranes (5-ton)	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	2	937	6	6	
,, (2-ton)	...	...	...	...	...	4	...	...	...	...	2	1	1	...	...	...	10	5,564	11	10	
Circular Saws and other iron works...	...	...	...	...	...	4	...	1	...	...	...	...	...	...	1	...	7	1,510	6	11	
,, Saw Tables, complete with frames.	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	3	46	9	9	
Apparatus, Boring, sets ...	...	...	...	1	...	4	1	...	...	...	...	...	...	...	...	...	1	9	1	7	
Plate screw with tapes, large sets	...	...	...	...	...	4	...	1	...	2	...	...	...	...	...	...	6	4,156	8	6	
Do. do. do. do. small	1	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	2	1,568	9	1	
Portable pumps	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	2	12,793	9	1	* Two of these with pumps.
Lathes one* 6" 8 feet bed ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	*3	3	971	8	10	
Engines, steam 6-h. p. ...	...	...	...	...	...	3	...	1	1	1	...	*1	...	...	...	2	2	232	13	11	
Pumps, rotary	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	354	13	0	
Forges, small	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	221	9	10	
Screws, jack	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	2	10,127	13	0	
Carpenters tools, sets ...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	1	100	0	0	
Rails, iron bridge yards ...	...	...	...	...	1,760	1,760	1,333⅓	...	...	1,666⅔	...	1	333⅓	...	2,946⅓	9,799⅔					
Lathes, 10 feet bed ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1					

Saw Gins of 60 Saws each...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	400	0	0	
,, ,, 56 ,, ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	200	0	0	
,, ,, 30 ,, ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	150	0	0	
,, ,, 28 ,, ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	120	0	0	
,, ,, 25 ,, ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	100	0	0	
,, ,, 7 ,, ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	50	0	0	
,, ,, 5 ,, ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	40	0	0	
Devil Gin	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	150	0	0	
Cattle power Machine, complete	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	700	0	0	
Curzon's double power patent Atlas Press by W. Laird of Liverpool	...	...	...	...	...	...	...	...	...	...	1	...	..	...	...	1	100	0	0	
Small model of Cotton Press	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	3	0	0	
,, of Gin house...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	1	0	0	
Hackle Gin	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	50	0	0	
Engine 4-h. p. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2,185	1	5	
Transport carriage ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	521	1	11	
Total.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,01,732	0	11	

Cnetral Office of Public Works,
Chepauk,
27th November 1862.

(Signed.) W. I. BIRDWOOD, Colonel, R. E.,
Chief Engineer, D. P. W.

Proceedings of the Madras Government, Public Works Department, 22nd December 1862.

Proceedings of the Madras Government, Public Works Department, 22nd December 1862.

Opinions of sixteen District Engineers on the utility to them of certain articles of machinery now in their respective Districts.

No. 284, dated 3rd December 1861. *Ganjam.*—States that the machinery in that District has never been used since its receipt in the District.

No. 972, dated 23rd November 1861. *Vizagapatam.*—States that the only article of machinery lying useless in that District is a 2-ton Crane which was supplied for the work of the contemplated improvements to the Port.

No. 2,216, dated 3rd December 1861. *Nellore.*—States that four Brick-making machines sent for the use of the Anicut and tried under the most favorable circumstances and efficient superintendence turned out dearer bricks than those obtained by the ordinary means. The 4-h. p. Engine sent him, not being portable, is unsuited to pumping foundations, and a 5-ton Crane is lying idle.

No. 736, dated 25th November 1861. *Kurnool.*—States that the only article of machinery lying useless in the District Stores is a Circular Saw Table which might be turned to good account elsewhere.

No. 2,112, dated 24th February 1862. *Madras.*—States that of the machinery in his District one Tile-making machine and one Crab are not required by him.

No. 1,388, dated 15th February 1862. 16-11-61. *North Arcot.*—Sends a statement of the articles of machinery not made use of in that District.

No. 239, dated 11th December 1861. *South Arcot.*—Forwards a statement of the machinery lying useless in that District.

No. 239, dated 11th December 1861. No. 1,759, dated 11th January 1862. *Tanjore.*—Forwards a statement of machinery and states that much of it has never been used and that the whole was thrust on the District without being called for.

No. 1,164, dated 21st November 1861. *Madura.*—Gives the names of the articles of machinery lying useless in that District and adds that they were supplied without being called for, and for what purpose he is at a loss to know.

No. 1,759, dated 11th February 1862. *Trichinopoly.*—States that the only article of machinery lying useless in the District Stores is a 2-ton Crane.

No. 759, dated 22nd February 1862. *Coimbatore.*—Sends a statement of the articles lying useless in the District Stores.

27th December 1861. *Salem.*—Forwards a statement of the machinery lying useless in the District, some of which it is stated was supplied without being called for. When tried were found not to answer expectations.

No. 200, dated 20th November 1861. *Tinnevelly.*—States that some of the articles were indented for in anticipation of being usefully employed on certain works that had been estimated for but which never yet met with the sanction of Government.

19-11-61. *South Canara.*—Forwards a statement of the machinery lying useless in that District, and adds that the articles have not as yet been taken out of their cases; but that they are however kept clean and in good order. It is not clear how this can be the case.

No. 1,501, dated 13th November 1861. *Presidency.*—Forwards a statement of machinery lying useless in that District, and suggests that as the articles are not likely to be required again by him they should be returned to the Presidency Stores for issue elsewhere.

No. 223, dated 25th November 1861. *Malabar.*—Forwards a Statement of machinery none of which has been used since their receipt in the District.

(True Extracts.)

(Signed.) W. I. BIRDWOOD, Colonel, R. E.,
Chief Engineer.

No. 415. ORDER THEREON, 22nd December 1862, No. 3,062.

1. The Governor in Council is of opinion that it would be well to sell such articles as are not required by District Engineers. By putting them into the market a few at a time, they might be got rid of gradually. There are some, however, for which use might be found in other Departments, and the list appended to the Chief Engineer's letter had better therefore be printed and circulated to the Ordnance, Marine, Railway, &c., authorities.

2. Colonel Birdwood is requested to give effect to these instructions.

(Signed.) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

Central Office P. W. D.
Chepauk 27 Nov. 1862

No. 4418

From

Colonel W. I. Birdwood R.E.
Chief Engineer P.W.D.

To

The Secretary to Government
P. W. D.

Sir,

No. 15 dated 14th Nov. 1862. No. 2341 of 20th December 18th. I have the honor to furnish the report called for by Government in their orders noted in the margin. Attached to this is a Statement shewing the various articles of Machinery lying useless in each District.

Judging from the opinions of the District Engineers, it appears that this large quantity of machinery was procured from England in the confident expectation that Public Works in this Presidency would be prosecuted on a much larger scale than they previously had been. On this ground only can this large importation of such Valuable

Valuable Stores be at all justified.

The Expense having already been incurred, it is impossible now to remedy the Evil, all that can now be done is to prevent any more needless outlay on account of Machinery I strongly recommend, therefore, that all articles which have already been despatched up Country be kept there under the Charge of District Engineers, and not be returned to Madras where the Sea air will rapidly deteriorate them. Even if the Articles were now in Madras they must be Exposed to the effects of both wind and weather, as there is not Storage room for more than the number we already have on our hands.

I have but little doubt that this want of Storage room accounts in part for so much Machinery lying useless up Country, it was sent away because it could ~~in~~ not be Cared for here and might be turned to profitable account in the Districts.

I consider it my duty, here, to recommend that if more Machinery be procured from England more accomodation be at once built for it. Our present Store Rooms are very far from what they should be. White Ants already infest the Rooms in Chepauk, and those at Ahmednagar's battery have no side walls in fact they are open Sheds and they afford no Security whatever.

I have the honor to be
Sir
Your most Obedient Servant

H. Lewis Lt Colonel RE.
Chief Engineer &c &c.

Compd & Pencil

Opinion of Civil Engineer Whitelock Superintending Engineer of Machinery &c. &c. &c. on the practicability of adapting the Machinery now in the Dockyards for the manufacture of Wrought Iron Gun Carriages.

Secretary's Office.

Gunpowder - Statement of the Barrels of Gunpowder now in Store at the Royal Gunpowder Mills Waltham Abbey & Faversham Kent.

Ordnance - Statement of the Ordnance now in Store at the Royal Gunpowder Mills Waltham Abbey & Faversham Kent.

Returns of the Machinery for the manufacture of Wrought Iron Gun Carriages &c. &c. &c.

Return of Machinery for the manufacture of Wrought Iron Gun Carriages &c. &c. &c.

Return of Machinery for the manufacture of Wrought Iron Gun Carriages &c. &c. &c.

Dis: 20 Dec 1862 Nos 261 - 264

Nch 14.

Gen. Ry. 1862 Dec
Pro: of Govt for Dec
No. 3616.

From
The Chief Engr's Office

To
The Secretary to Govt
Pub. Wks.

Dated 27 Nov 1862
Rec'd 1 Dec
No. 4418.

Respecting the suitability of Cochran's Machinery to Civil Engrs

Nch 14.

C. 8 Dec 1862 R 15

Would be as well to call for Cochran's Report on the Machinery by Mr Fairbairn & Mr Hick

Gen. Ry. 1862 Dec
Pro: of Govt for Dec
No. 3616.

From
The Chief Engr's Office

To
The Secretary to Govt
Pub. Wks.

Dated 27 Nov 1862
Rec'd 1 Dec
No. 4418.

Respecting the suitability of Cochran's Machinery to Civil Engrs

Wm Cooper

Kurnool — States that the only article of machinery lying useless in the District Stores is a Circular Saw Table which might be turned to good account Elsewhere.

No 736 dated 25th November 1861

Madras — States that of the Machinery in his District, one tile Making machine, and one Crab are not required by him.

No 2112 dated 24th July 1862

North Arcot — Sends a Statement of the Articles of machinery not made use of in that District.

No 1388 dated 15th July 1862
26. 11. 01.

South Arcot — Forwards a Statement of the machinery lying useless in that District

No 239 dated 11th December 1861.

Tanjore — Forwards a Statement of Machinery and States that much of it has never been used and that the whole was thrust on the District without being called for.

No 239 dated 11th December 1861.

No 1759 dated 11th July 1862

Madura — Gives the names of the Articles of Machinery lying useless in that District and adds that they were supplied without being called for, and for what purpose he is at a loss to know.

No 1164 dated 26th Nov 1861.

Vizianagrum — States that the only Article of Machinery lying useless in the District Stores is a two ton Crane.

No 1759 dated 11th July 1862

Coimbatore — Sends a Statement of the Articles lying useless in the District Stores

No 579 dated 22nd July 1862

Salem — Forwards a Statement of the Machinery lying useless in the District, some of which it is Stated was supplied without being called for. When tried were found not to answer Expectations

27th Dec 1861

Tinnevelly — States that some of the Articles were indented for in anticipation of being usefully employed on certain works that had been Estimated for but which never yet met with the Sanction of Government.

No 203 dated 20th Nov 1861

South Canara. Forwards a Statement of the Machinery lying useless in that district, and adds that the Articles have not as yet been taken out of their cases; but that they are however kept clean and in good order. It is not clear how this can be the case. 19. 11. 61.

Presidency. Forwards a Statement of Machinery lying useless in that District, and suggests that as the Articles are not likely to be required again by him they should be returned to the Presidency Store for issue elsewhere. No 1501 dated 13th Nov 1861

Malabar. Forwards a Statement of Machinery none of which has been used since their receipt in the District. No 223 dated 25 Nov. 1861

True Extracts.

H. Thuillier Colonel R.E.
Chief Engineer Dept.

Office of Chief Engineer
Madras
27th November 1861

Statement of Machinery lying useless in the Stores of the Engineer Department

Names of Articles	Presidency	Malabar	Canara	Coimbatore	Salem	Madura	Tinnevelly	Vizagapatam	Ganjam	Total	Value
Sawing Machine	1									1	150
Planing Machine	1									1	300
Mortising Machine	1									1	150
Tenoning Machine	1									1	150
Moulding Machine	1									1	150
Circular Saw Frame	1									1	50
Portable Steam Engine	1									1	2185 15
Portable Boiler	1									1	321 11
Total Rupees											10322 11

Statement of the Machinery lying useless in several Parts of the Dock.

Names of Articles	Lancashire	Scotch Locomotive	Portable	Stationary	Marshall	Double Cylinder	Single Cylinder	Oscillating	Horizontal	Vertical	Condensing	Non-condensing	Multitubular	Pressure	State	Estimated Value	
Machines Brickmaking	"	"	4	"	1	"	"	"	"	1	"	"	2	"	"	6	14	1325 " 4	
" Tilemaking	"	"	"	"	1	"	"	"	"	"	"	"	"	"	"	"	1	Not yet known	
" Sawing & Shearing	1	"	"	"	"	1	"	"	"	"	"	"	1	"	"	"	3	248 7 6	
" Weighing	1	"	"	"	"	1	"	"	"	"	"	"	"	1	"	"	3	94 2 "	
" Drilling	"	"	"	"	"	"	"	"	"	"	"	"	1	"	"	"	1	300 " "	
" Pile Driving	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	1	1	1955 " 11	
Blocks, Single brass Sheave 6"	"	"	"	"	"	2	"	"	1	"	"	1	"	"	*2	6	85 9 11		* Original 8 Now 6
" double " " 6"	"	"	"	"	1	"	"	"	1	"	"	1	"	"	*2	5	84 " 4		
" treble " " 6"	"	"	"	"	"	"	"	"	1	"	"	"	"	"	*2	3	59 8 4		
" Snatch " " 14"	"	"	"	"	3	1	"	"	1	"	"	2	"	"	"	7	291 2 6		
Cradles Double	"	"	"	"	"	1	1	"	1	"	"	"	1	"	1	5	169 1 1		
" Single	"	"	"	"	3	"	"	"	1	1	"	"	1	"	1	7	101 4 10 2		
Cranes 5 Tons	"	"	1	"	"	"	"	"	"	"	"	"	"	"	2	3	456 8 4 3		
" 2 Tons	1	1	"	"	4	"	1	1	"	3	"	"	"	1	1	13	1393 10 5		
Circular Saw Tables Complete	"	"	"	"	"	1	1	"	"	"	"	"	"	"	"	2	93 7 6 6		
Saw Tables Complete with Saws	"	"	"	1	"	4	"	1	"	"	2	1	1	"	"	10	556 11 10		
Mortising Boring 6 ft	"	"	"	"	"	4	"	2	"	"	"	"	"	1	"	7	151 6 11		
Plate Iron with Saws Large 6 ft	1	"	"	"	1	1	"	"	"	"	"	"	"	"	"	3	46 3 3		
" " " Small	"	"	"	"	1	"	"	"	"	"	"	"	"	"	"	1	9 1 7		
Portable Pumps	"	"	"	"	3	"	1	"	1	1	"	"	"	"	"	6	413 8 6		
Talbot 6" 8 ft Bed	"	"	"	"	"	"	"	"	1	"	"	*	"	"	"	2	136 9 1		
Engines Steam 6 H. Power	"	"	"	"	"	"	"	"	"	"	"	"	"	"	*3	3	127 9 1		* Two fitted with Pumps
Pumps Rotary	"	"	"	"	"	"	"	"	"	"	"	"	"	"	2	2	97 8 10		
Forges Small	"	"	"	"	"	"	"	"	"	"	"	"	"	"	1	1	23 2 13 11		
Shears Jacks	1	"	"	"	1	"	"	"	1	"	"	"	1	"	"	4	53 4 13 "		
Compressing Tools Set	"	"	"	"	"	"	"	"	"	2	"	"	"	"	"	2	22 1 9 10		
Rails Iron Bridge 8 ft	"	"	"	"	1760	1760	1333⅓	"	"	1666⅔	"	"	333⅓	"	2976⅔	9799⅔	1012 7 13 "		
Lathes 10 ft Bed	"	"	"	"	"	"	"	"	"	1	"	"	"	"	"	1	40 " "		
Saw Guns of 60 Saws Each	"	"	"	"	"	"	"	"	"	"	1	"	"	"	"	1	40 " "		
" 56	"	"	"	"	"	"	"	"	"	"	1	"	"	"	"	1	20 " "		
" 30	"	"	"	"	"	"	"	"	"	"	1	"	"	"	"	1	15 " "		
" 28	"	"	"	"	"	"	"	"	"	"	1	"	"	"	"	1	12 " "		
" 25	"	"	"	"	"	"	"	"	"	"	1	"	"	"	"	1	10 " "		
" 7	"	"	"	"	"	"	"	"	"	"	1	"	"	"	"	1	5 " "		
" 5	"	"	"	"	"	"	"	"	"	"	1	"	"	"	"	1	4 " "		
																	9502 13 7		

P. W. Dept.

No. 3062.

Proceedings of the Madras Government.

Under date the 22nd Decr 1862.

Read the following letter from the Chief Engineer—

Reporting on the inutility of certain machinery to District Engineers— } C. E. 2nd Nov/62 No. 448

The Governor in Council is of opinion that it would be well to sell such Articles as are not required by Dt. Engineers. By putting them into the Market a few at a time, they might be got rid of gradually. There are some however for which use might be found in other Departments, & the list appended to the Chief Engineer's letter had better therefore be printed & circulated to the Ordnance, Marine, Railway & Ca Authorities.

Col Budgood is Requested

1 Copies.

Mr Chungmei Aug. 23rd

3 Copies end. Dr Cheng

Public Works 1862 Departt
Proc: of Govt for December-

No 3062-

Proceedings of the Madras
Government-

Dated 22d December 1862-

Requesting the Chief Engr
to get a List of the Articles found
useless in this Departt, printed
and to circulate the same to other
Marine Railway Stns authorized
and to dispose of them gradually

No 411-415-