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# 16

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10/2/91

P.W.D.

Go. No. 2637. W.

At 16.10.1893

28

(10/2/91)

A.

STATEMENT of famine tools showing quantities actually in stock in Circles as compared with quantities authorised—vide Appendix A to G.O. No. 2787 W., dated 7th November 1884.

| Description of articles.       | I Circle.                    |                    |       | II Circle. |                              |                    | III Circle. |       |                              |
|--------------------------------|------------------------------|--------------------|-------|------------|------------------------------|--------------------|-------------|-------|------------------------------|
|                                | Ordered to be kept in stock. | Actually in stock. | More. | Less.      | Ordered to be kept in stock. | Actually in stock. | More.       | Less. | Ordered to be kept in stock. |
|                                | 2                            | 3                  | 4     | 5          | 6                            | 7                  | 8           | 9     | 10                           |
| 1                              |                              |                    |       |            |                              |                    |             |       |                              |
| Augers                         | 180                          | 4,064              | 8,868 |            | 195                          | 185                |             | 10    | 118,000                      |
| Axes of sorts                  |                              |                    |       |            |                              |                    |             |       | 121,425                      |
| Anvils                         |                              |                    |       |            |                              |                    |             |       | 33                           |
| Bars                           |                              |                    |       |            |                              |                    |             |       | 391                          |
| Bilhooks                       |                              | 500                | 500   |            |                              |                    |             |       | 3                            |
| Boxes                          |                              |                    |       |            |                              |                    |             |       | 2                            |
| Beams                          |                              |                    |       |            |                              |                    |             |       | 5                            |
| Buckets                        |                              |                    |       |            |                              |                    |             |       | 6                            |
| Brickmoulds                    |                              |                    |       |            |                              |                    |             |       | 6                            |
| Ballast gauges                 |                              |                    |       |            |                              |                    |             |       | 5                            |
| Cash chests                    |                              |                    |       |            |                              |                    |             |       | 14,129                       |
| Crowbars                       | 658                          | 2,237              | 1,579 |            | 3,302                        | 4,302              | 1,000       | 3     | 18,000                       |
| Chisels                        |                              |                    |       |            |                              |                    |             |       | 1                            |
| Clamps                         |                              |                    |       |            |                              |                    |             |       | 125                          |
| Cross staff                    |                              |                    |       |            |                              |                    |             |       | 11                           |
| Carta, iron, water             |                              |                    |       |            |                              |                    |             |       | 17                           |
| Chain, iron, for beam weighing |                              |                    |       |            |                              |                    |             |       | 4                            |
| Chains, iron, galvanized       |                              |                    |       |            | 20                           | 20                 |             |       | 4                            |
| Desks                          |                              |                    |       |            |                              |                    |             |       | 4                            |
| Forks                          |                              |                    |       |            |                              |                    |             |       | 4                            |
| Funnels                        |                              |                    |       |            |                              |                    |             |       | 4                            |
| Gauge boards                   |                              |                    |       |            |                              |                    |             |       | 1                            |
| Hammers                        | 225                          | 1,375              | 1,150 |            | 2,045                        | 3,047              | 1,001       |       | 86,000                       |
| Hatchets                       |                              |                    |       |            |                              | 8                  | 3           |       | 65                           |
| Handles                        |                              |                    |       |            |                              |                    |             |       | 10,014                       |
| Jumpers                        |                              | 200                | 200   |            |                              | 3                  | 3           |       | 1,341                        |
| Knives                         |                              |                    |       |            |                              |                    |             |       | 2,000                        |
| Levels, masons                 |                              |                    |       |            |                              |                    |             |       | 1                            |
| Manropoles                     |                              |                    |       |            |                              |                    |             |       | 126,335                      |
| Mill strings, acts             | 377                          | 5,377              | 5,020 |            | 3,668                        | 3,339              |             | 169   | 119,000                      |
| Measures                       |                              |                    |       |            |                              |                    |             |       | 35                           |
| Mallets                        |                              |                    |       |            |                              |                    |             |       | 8                            |
| Measuring rods                 |                              |                    |       |            |                              |                    |             |       | 197                          |
| Metal gauges, ring             |                              |                    |       |            |                              |                    |             |       | 4                            |
| Needles                        |                              |                    |       |            |                              |                    |             |       | 2                            |
| Nippers                        |                              |                    |       |            |                              |                    |             |       | 2,693                        |
| Picks or Kanthalams            |                              |                    |       |            |                              |                    |             |       | 12                           |
| Plate, iron, for beam weighing |                              |                    |       |            |                              |                    |             |       | 100                          |
| Pans                           |                              |                    |       |            |                              |                    |             |       | 100                          |
| Rods                           |                              |                    |       |            |                              |                    |             |       | 100                          |
| Rings                          |                              |                    |       |            |                              |                    |             |       | 100                          |

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Statement of famine tools showing quantities actually in stock in Circles as compared with quantities authorised—vide Appendix A, &c.—cont.

| Description of articles.       | IV Circle.                   |    |                    |        | V Circle.                    |    |                    |    | VI Circle.                   |    |                    |    | Famine Relief Works Funds.   |    |                    |    |
|--------------------------------|------------------------------|----|--------------------|--------|------------------------------|----|--------------------|----|------------------------------|----|--------------------|----|------------------------------|----|--------------------|----|
|                                | Ordered to be kept in stock. |    | Actually in stock. |        | Ordered to be kept in stock. |    | Actually in stock. |    | Ordered to be kept in stock. |    | Actually in stock. |    | Ordered to be kept in stock. |    | Actually in stock. |    |
|                                | 14                           | 15 | 16                 | 17     | 18                           | 19 | 20                 | 21 | 22                           | 23 | 24                 | 25 | 26                           | 27 | 28                 | 29 |
| Augers                         | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Axe of sorts                   | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Bar                            | 66,595                       | 47 | ..                 | 13,009 | 1,172                        | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Barrel                         | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Barrel                         | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Beams                          | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Buckets                        | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Bushings                       | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Ballast gauges                 | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Cash chests                    | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Crow bars                      | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Chisels                        | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Chumps                         | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Cross staff                    | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Crane, iron, water             | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Chain, iron, for beam weighing | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Chains, iron, galvanized       | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Forks                          | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Funnels                        | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Gauge boards                   | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Hammers                        | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Hatchets                       | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Handles                        | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Jumpers                        | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Knives                         | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Lever, masons                  | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Masooties                      | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Mill fittings, sets            | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Measures                       | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Mallets                        | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Measuring rods                 | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Metal gauges, ring             | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Needles                        | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Nippers                        | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Picks or Kunthalams            | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Plate, iron, for beam weighing | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Pans                           | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Rods                           | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Rings                          | ..                           | .. | ..                 | ..     | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |

Statement of famine tools showing quantities actually in stock in Circles as compared with quantities authorised—vide Appendix A, &c.—cont.

| Description of articles. | I Circle.                    |    |                    |    | II Circle.                   |    |                    |    | III Circle.                  |    |                    |    |
|--------------------------|------------------------------|----|--------------------|----|------------------------------|----|--------------------|----|------------------------------|----|--------------------|----|
|                          | Ordered to be kept in stock. |    | Actually in stock. |    | Ordered to be kept in stock. |    | Actually in stock. |    | Ordered to be kept in stock. |    | Actually in stock. |    |
|                          | 2                            | 3  | 4                  | 5  | 6                            | 7  | 8                  | 9  | 10                           | 11 | 12                 | 13 |
| 1                        | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Rammers                  | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Rain gauges              | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Scales                   | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Shades                   | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Sickles                  | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Spoons                   | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Sawbands                 | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Sawpits                  | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Smith's chest            | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Sharpening stand         | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Shovels                  | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Tampers                  | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Triangular iron          | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Table, camp, pieces      | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Vice stand               | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Wedges                   | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |
| Weights                  | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. | ..                           | .. | ..                 | .. |

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Statement of famine tools showing quantities actually in stock in Circles as compared with quantities authorised—vide Appendix A, &amp;c.—cont.

| Description of articles. | IV Circle.                   |                    |       |       | V Circle.                    |                    |       |       | VI Circle.                   |                    |       |       | FAMINE PUBLIC WORKS STORES.  |                    |       |       |
|--------------------------|------------------------------|--------------------|-------|-------|------------------------------|--------------------|-------|-------|------------------------------|--------------------|-------|-------|------------------------------|--------------------|-------|-------|
|                          | Ordered to be kept in stock. | Actually in stock. | More. | Less. | Ordered to be kept in stock. | Actually in stock. | More. | Less. | Ordered to be kept in stock. | Actually in stock. | More. | Less. | Ordered to be kept in stock. | Actually in stock. | More. | Less. |
|                          | 14                           | 15                 | 16    | 17    | 18                           | 19                 | 20    | 21    | 22                           | 23                 | 24    | 25    | 26                           | 27                 | 28    | 29    |
| Hammers                  | 2,750                        | 3,438              | 688   |       | 173                          | 53                 |       | 119   |                              |                    |       |       | 7,600                        |                    |       |       |
| Rangees                  | 33                           | 33                 | 1     |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Spades                   |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Sickles                  |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Spoons                   |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Sawbills                 |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Sawpit                   |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Smith's chest            |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Sharpening stand         |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Shovels                  |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Tampers                  |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Triangular iron          |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Table, conf. piece       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Vice stand               |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Wedges                   |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |
| Weights                  |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |                              |                    |       |       |

## PUBLIC WORKS DEPARTMENT.

No. 4894 C., dated 22nd November 1892.

## MEMORANDUM.

READ—the following papers :—

From the Superintending Engineer, I Circle, dated 25th Aug. 1892, No. 611 G.N.

|     |   |   |            |   |          |
|-----|---|---|------------|---|----------|
| II  | " | " | 19th Sept. | " | "        |
| III | " | " | 10th Oct.  | " | 2078     |
| IV  | " | " | 12th Sept. | " | 393 W.   |
| V   | " | " | 7th Sept.  | " | 409 W.   |
| VI  | " | " | 22nd Aug.  | " | 765 T.C. |

In memorandum No. 64 D., dated 28th July 1892, Superintending Engineers were requested to report the numbers of famine tools in stock and to afford certain other details in order that it might be considered whether it would be advisable to store all the tools in Madras.

2. From the replies received it would appear that the proposal would involve costly additions to the Public Works Store buildings and that the tools themselves could not be moved without considerable expense. Under these circumstances the Chief Engineer is not prepared to move further in the matter.

3. It would appear, however, from the statements submitted by Superintending Engineers that the numbers of tools actually in stock differ considerably from the scale laid down in appendix A to G.O., No. 2787 W., dated 7th November 1884. The differences are shown in the accompanying compiled statement (marked A). Before taking any action to adjust these differences, Superintending Engineers will be so good as to go carefully through the lists of their circles, and in the light of the experience gained since the scale was framed, report the number of each description of tool that they consider should be kept in stock in divisions in readiness for future emergencies. The General Superintendent, Public Works Stores, will also report whether any, and, if so, what, alteration of the scale laid down in appendix B to the orders quoted above should be made. The nominal distribution to circles of the stores to be kept in stock in Madras may now be disregarded, the tools being held to be available for despatch to any circle or division that may require them.

4. In framing these estimates, it should be remembered that there is not likely to be a sudden demand for a full supply of famine tools over any very extensive area, but that there will usually be time to move the tools from one division to another according to requirements, the deficiencies of one division being thus supplemented from the surplus of another.

5. If, moreover, the existing stock of famine tools is utilised for *general purposes*, and the numbers thus reduced from the authorised scale recouped, not in divisions, but in the Central Depot at Madras, a gradual and desirable absorption of divisional stocks will occur. This is a matter, however, on which the orders of Government will be necessary and they will be obtained on the receipt of the information called for in this memorandum.

(Signed) G. T. WALCH,  
Ag. Chief Engineer, P.W.D.

To Superintending Engineers.

Exd. S. J. Peroira.  
Spare Copies

*Accompaniment to Proceedings, No. 829 W., dated 27th March 1893.*

STATEMENT showing the number of tools required to be kept in stock for famine relief works.

| Districts.                          | Population as per census of 1891. | Total number of tools required at 1 per cent. of population. | Axes, felling, at 5 per cent. of the total number of tools. | Bill-hooks at 7½ per cent. of the total number of tools. | Hammers, cast-iron, at 7½ per cent. of the total number of tools. | Hammers, stone-break- ing, at 10 per cent. of the total number of tools. | Fishaxes at 15 per cent. of the total number of tools. | Crowbars at 15 per cent. of the total number of tools. | Mamooties at 40 per cent. of the total number of tools. | Wooden cash chest for every 2,000 of 5 per cent. of population. | Scale, 5 cwt., for every 2,000 of 5 per cent. of population. |
|-------------------------------------|-----------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------|
| Gaujam                              | 1,803,813                         | 18,938                                                       | 947                                                         | 1,420                                                    | 1,420                                                             | 1,894                                                                    | 2,841                                                  | 2,841                                                  | 7,575                                                   | 47                                                              | 47                                                           |
| Vinagapatam                         | 2,795,054                         | 27,950                                                       | 1,397                                                       | 2,096                                                    | 2,096                                                             | 2,795                                                                    | 4,193                                                  | 4,193                                                  | 11,180                                                  | 70                                                              | 70                                                           |
| Gookvari                            | 983,931                           | 9,839                                                        | 492                                                         | 738                                                      | 738                                                               | 984                                                                      | 1,476                                                  | 1,476                                                  | 3,935                                                   | 25                                                              | 25                                                           |
| Kistna                              | 1,159,420                         | 11,594                                                       | 580                                                         | 870                                                      | 870                                                               | 1,159                                                                    | 1,739                                                  | 1,739                                                  | 4,637                                                   | 29                                                              | 29                                                           |
| Nellore                             | 1,172,688                         | 11,726                                                       | 586                                                         | 890                                                      | 890                                                               | 1,172                                                                    | 1,759                                                  | 1,759                                                  | 4,690                                                   | 29                                                              | 29                                                           |
| Cuddapah                            | 1,263,887                         | 12,638                                                       | 634                                                         | 952                                                      | 952                                                               | 1,269                                                                    | 1,903                                                  | 1,903                                                  | 5,075                                                   | 32                                                              | 32                                                           |
| Kurupol                             | 853,034                           | 8,530                                                        | 427                                                         | 640                                                      | 640                                                               | 863                                                                      | 1,279                                                  | 1,279                                                  | 3,412                                                   | 21                                                              | 21                                                           |
| Bellary                             | 911,579                           | 9,115                                                        | 456                                                         | 684                                                      | 684                                                               | 911                                                                      | 1,367                                                  | 1,367                                                  | 3,546                                                   | 23                                                              | 23                                                           |
| Anantapur                           | 707,553                           | 7,075                                                        | 354                                                         | 531                                                      | 531                                                               | 707                                                                      | 1,061                                                  | 1,061                                                  | 2,830                                                   | 18                                                              | 18                                                           |
| Chingleput                          | 1,137,333                         | 11,373                                                       | 569                                                         | 863                                                      | 863                                                               | 1,137                                                                    | 1,706                                                  | 1,706                                                  | 4,549                                                   | 28                                                              | 28                                                           |
| North Arcot                         | 2,178,226                         | 21,782                                                       | 1,039                                                       | 1,634                                                    | 1,634                                                             | 2,178                                                                    | 3,267                                                  | 3,267                                                  | 8,713                                                   | 54                                                              | 54                                                           |
| South Arcot                         | 2,159,786                         | 21,597                                                       | 1,030                                                       | 1,620                                                    | 1,620                                                             | 2,160                                                                    | 3,239                                                  | 3,239                                                  | 8,639                                                   | 54                                                              | 54                                                           |
| Tanjore                             | 341,848                           | 3,418                                                        | 171                                                         | 256                                                      | 256                                                               | 342                                                                      | 513                                                    | 513                                                    | 1,367                                                   | 9                                                               | 9                                                            |
| Trichinopoly                        | 1,041,815                         | 10,418                                                       | 521                                                         | 781                                                      | 781                                                               | 1,042                                                                    | 1,563                                                  | 1,563                                                  | 4,157                                                   | 26                                                              | 26                                                           |
| Madura                              | 2,608,150                         | 26,081                                                       | 1,304                                                       | 1,956                                                    | 1,956                                                             | 2,608                                                                    | 3,912                                                  | 3,912                                                  | 10,433                                                  | 66                                                              | 66                                                           |
| Tinnevely                           | 1,634,514                         | 16,345                                                       | 817                                                         | 1,226                                                    | 1,226                                                             | 1,634                                                                    | 2,452                                                  | 2,452                                                  | 6,588                                                   | 41                                                              | 41                                                           |
| Salem                               | 1,862,666                         | 18,625                                                       | 931                                                         | 1,472                                                    | 1,472                                                             | 1,862                                                                    | 2,844                                                  | 2,844                                                  | 7,800                                                   | 49                                                              | 49                                                           |
| Cambatore                           | 1,999,432                         | 19,994                                                       | 1,000                                                       | 1,500                                                    | 1,500                                                             | 1,999                                                                    | 2,999                                                  | 2,999                                                  | 7,997                                                   | 50                                                              | 50                                                           |
| Total                               | .....                             | 268,088                                                      | 13,465                                                      | 20,109                                                   | 20,109                                                            | 26,806                                                                   | 40,213                                                 | 40,213                                                 | 107,233                                                 | 670                                                             | 670                                                          |
| Fifty per cent. of the total        | .....                             | 134,044                                                      | 6,703                                                       | 10,055                                                   | 10,055                                                            | 13,403                                                                   | 20,106                                                 | 20,106                                                 | 53,616                                                  | 335                                                             | 335                                                          |
| Deduct the number of tools in stock | .....                             | ..                                                           | 6,064                                                       | 6,296                                                    | 10,736                                                            | 123,747                                                                  | 200,682                                                | 49,170                                                 | 240,542                                                 | 2                                                               | 28                                                           |
| Balance required                    | .....                             | ..                                                           | 649                                                         | 3,759                                                    | 681                                                               | 110,344                                                                  | 180,576                                                | 29,064                                                 | 186,927                                                 | 333                                                             | 307                                                          |

(e) The population of delta taluka has been excluded. The figures are in this case taken from the census of 1881, those for 1891 not being available as yet. Block figures show excesses.

2637  
A

GOVERNMENT OF MADRAS.  
PUBLIC WORKS DEPARTMENT.

General.  
Account.

READ—the following papers:—

|                                                                                 |  |
|---------------------------------------------------------------------------------|--|
| From the Superintending Engineer, II Circle, dated 7th March 1893, No. 559 G.L. |  |
| " " " III " " 7th " " 3211.                                                     |  |
| " " " IV " " 26th Feb. " " 74 W.                                                |  |
| " " " V " " 21st Dec. 1892 " 529 W.                                             |  |
| " " " V " " 2nd March 1893 " 80 W.                                              |  |
| " " " V " " 11th " " 98 W.                                                      |  |
| " " " V " " 11th " " 99 W.                                                      |  |
| " " " VI " " 7th Feb. " 1663 T.C.                                               |  |
| " " " VI " " 17th " " 1713 T.C.                                                 |  |
| " " " VI " " 11th March " 1858 T.C.                                             |  |

ORDER—dated 27th March 1893, No. 829 W., Public Works.

The papers quoted above are replies to the Chief Engineer's memorandum No. 4894 C., dated 22nd November 1892, in which information was called for as to the number and description of tools that should be kept in stock in readiness for use on famine works.

2. On consideration of the matter, His Excellency the Governor in Council is of opinion that the number of tools should, as suggested by the Superintending Engineer, V Circle, be calculated on the population of each district and that the description of tools to be kept in stock should be limited to those usually in greatest demand. If tools of other kinds are required, they must be specially obtained when the necessity arises.

3. The following tools will accordingly be kept in stock for famine relief works in the proportions shown:—

Axes, felling, at 5 per cent. of total number of tools.  
Bill-hooks, at 7½ do. do. do.  
Rammers, cast-iron, at 7½ per cent. of total number of tools.  
Hammers, stone-breaking, at 10 per cent. of total number of tools.  
Pickaxes, at 15 per cent. of total number of tools.  
Crowbars, at 15 do. do. do.  
Mamooties, at 40 do. do. do.  
Wooden cash chests, 1 for every 2,000 of 5 per cent. of the population.  
Scales, 5 cwt., 1 for every 2,000 of 5 per cent. of the population.

4. It is assumed \* that 5 per cent. of the whole population of areas liable to famine may have to be provided for on relief works, but it will be sufficient if tools are provided for 1 per cent. only, or one tool for every group of five laborers.

\* Vide Proceedings of the Board of Revenue, No. 714, dated 28th October 1892.

This proportion need not, however, be provided in advance for all districts of the Presidency. Famine is not likely to affect the whole Presidency at any one time, and, looking to existing facilities of transport, it will probably be sufficient to allow, as

a reserve stock of tools, one-half of the proportion fixed above. The accompanying statement has been prepared on this basis. It is circulated to Superintending Engineers for such remarks as they may wish to offer. It will be seen that no provision has been included for the West Coast and Nilgiri districts which are not liable to famine, and a deduction has been made for the delta taluks of the Godáviri, Kistna, Nellore, Tanjore, Trichinopoly and Tinnevely districts.

5. On receipt of replies to these Proceedings, the scale will be finally fixed and the requisite redistribution of tools will be authorised.

(True Extract.)

(Signed) G. T. WALCH,  
Ag. Secretary to Govt., P.W.D.

To Superintending Engineers.  
„ the Consulting Architect.  
„ the Chief Engineer for Irrigation  
„ the Revenue Department.

Ed. A. D. Xavier.  
Spare Copies

GENERAL.  
ACCOUNT.

Govt. of {1893} Madras.  
PUBLIC WORKS.

Dated March, 27th.

Recd.

Encl.

G.O., 27th Mar. 1893, No. 829 W.

MARCH.

Tools

Circulating to Superintending Engineers,  
for such remarks as they may wish to offer,  
a statement showing the number and de-  
scription of — required to be kept in stock  
for famine relief works.

Extract from the Inspection Notes of the Executive  
Engineer, Buckingham Canal Division, for  
August 1893.

North Sub & Division  
Stores.

Remark by E. E.

The question depends  
on what it costs  
to keep the tools in  
stock where they  
are at present.

120/ J. W. M.  
7.9.93.

Remark by E. E.

There cannot be any  
work for famine coolies  
in the future  
on the Buckingham  
Canal. Silt clearances  
may be available as  
work, but it is hoped  
this will be shortly  
reduced to a minimum  
and besides it is not  
the description of work  
congenial to the famine  
coolies. The tools may  
all be returned or  
sent where they can  
more

There is a considerable  
stock of tools in these  
stores, consisting of  
Mamoties, Crowbars,  
hammers, prammers  
round and flat pick  
axes &c, which have  
not been used since the  
famine works of 1891.  
I do not think there is  
any use in keeping them  
any longer, and have  
given orders to take  
the necessary steps to  
obtain Supg. Engineer's  
sanction to reduce the  
stock. Even on our depart-  
mental works, coolies  
supply their own tools,  
and the likelihood of  
any further famine work  
on the Buckingham Canal  
is too remote to render  
it advisable to load  
up our small stores  
which are wanted to  
store Cement &c with  
articles

articles not likely more conveniently  
to be wanted and be kept and looked  
procureable at any after  
time from the P. W.  
Stores Madras.

15/REED.B.  
13.9.96.

1 True Extract 1

J. W. Martin  
Superintending Engineer  
II Circle.

Dr 8/10/53

Superintending Engineer's Office.

No. 2790

II CIRCLE,

Dated 2-10-1893.

From,

J. W. Martin Esquire,  
Superintending Engineer,

II Circle.

To,

The Chief Engineer  
P. W. Department  
Madras.

Sir,

I have the honor to for-  
ward herewith extract from the  
one extract Inspection notes of the Chief Engineer,  
Buckingham Canal Division, with  
my remarks and those of the Chief  
Engineer for Irrigation and request  
the favor of your orders for sending  
the surplus tools referred to, to the  
General Superintendent, P. W.  
Stores, as they are not required.

I have the honor to be,  
Very respectfully,  
Your most obedient servant,

J. W. Martin  
Superintending Engineer  
II Circle.

P. M. STORE NO. 8408

48742922-11-92  
8296927-3-93

From  
The Supg-Superior  
2d Clerk

To  
The Chief Engineer  
Public Works Dept.

Recd: 11-10-93  
Dated 2-10-93

Enclosure  
A-22793e

Surplus tools of P. M. on  
blue book to El Sup! Mr  
Stores - forwards for  
an extract of P. M. on  
inspection who contain  
ing the names of E. J. and  
public there to -

2-6-17-4

From,  
The Superintending Engineer,  
II Circle.

To,  
The

Dated }  
Received } 18

Enclosures.

NO.

SUBJECT.

No 2637 May 16 October 1893  
The transfer of the  
tools in question  
to the P. M. Store is sanctioned

9.10 9.10

RECEIVED  
S. E. Circle  
S. E. Circle  
E. J. R. W. Clerk  
11/10/93  
2/13/10