B-Iw 2127/W. 13.7.88.

PWC No 8901

(4) 65C

Re D
into PWC

15/8/88

Re Communicated to
Communicate to
Officers concerned

Officers concerned

6.9.88

8/9/88

Dy. I Circle ✓
Dy V Circle ✓
Dy Revenue ✓
C.A to ~~Comptroller~~ ✓
Exec: Engr A ✓
Ch. Engr's Secretariat ✓
L & Lm. Deptt ✓

D 15/9

6.6.9.88

A X 16589. 3993.—2/88. I. 70.



| Indent or other demand. No. | Indent or other demand. Date— 1, of Indent; 2, of Receipt; 3, of Sanction by Sec. of State in Council. | Articles. No. of Item. | Articles. Description. | Articles. Quantity. | Estimated Cost of Indent; and Contract Prices. £ s. d. | Particulars of Orders. Date of Contract. | Particulars of Orders. Name of Contractor. | Particulars of Orders. Probable Date of Shipment. | Shipments (Quantity, Name of Vessel, and Date of Sailing); or Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| 9 I cont'd from page 4. | | | For Periyar Project cont'd | | | 1888. | | 1889 | |
| | | 31 | Tipping bucks | No. 6 | 63 . . | 20 June | Fowler & Co. | Aug | |
| | | 32 | Belting :- 12" wide | c/f 180 | | | - - | - | |
| | | | 7½ " | " 100 | | | | | |
| | | | 6 " | " 450 | 101 17 5 | 11 " | Sandy Belt Manuf'g Co. | | |
| | | | 5 " | " 450 | | | | | |
| | | | 4 " | " 100 | | | | | |
| | | | 6 ply, 10 " | " 150 | | | | | |
| | | | 8 " | " 150 | 33 12 . | 21 " | | | Shipped per s.s. Maple Branch (July to Bombay, to be transhipped to Tuticorin |
| Vide 4.0 S.0669-7/W of 27-2-88 | | 33 | Steel wire rope, Patent Flexible: 2" circ[e] | " 600 | | | | | |
| | | | 1½ " | " 600 | | | | | |
| | | | 1 " | " 1500 | 21 0 . | 7 " | Bullivant & Co. | | |
| | | 34 | Light wire rope | " 600 | - - - | | - - | - | |

| No. | Date | No. of Item | Description | Quantity | £ | s. | d. | Date of Contract | Name of Contractor | Probable Date of Shipment | Shipments (Quantity, Name of Vessel, and Date of Sailing); or Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 1888. 16 Apl. | | Vitros or liquid porcelain:- | | | | | | | | |
| panels | 6 June | 2 | White | galls 2 | | | | | | | |
| | (9.16) | 3 | Dk. blue | " 1 | 5 | | | 12 June | Griffiths Bros. & Co. | | - Shipped per s.s. Rewa (July) |
| | | 4 | Black | " 1 | | | | | | | |
| Indent df | 17 May | | Type Writers Perfected, No. 2 | | 80 | | | | | | |
| | 25 June | | by Remington & Sons | No. 2 | | | | | | | |
| | 18 July | | Types for Do. | sets 2 | | | | | | | |
| | (9.24) | | Black ink ribbons for Do. | No. 24 | | | | | | | |
| | | | Rubber bands for Do. | " 24 | | | | | | | |
| | | | Porpoise Oil | galls 5 | | | | | | | |
| | | | Directions for using Type Writers | copies 2 | | | | | | | |
| Indt. df | 18 June | | For the New High Court | | 43 | | | | | | |
| | 17 July | | Buildings at Madras. | | | | | | | | |
| | 8 Aug. | | | | | | | | | | |
| | (9.25) | 1 | Lead sheeting, weight 5 lbs per sq ft | lbs 2000 | | | | | | | |
| | | 2 | Copper tape for lightning conductors $1\frac{1}{4}$" x $\frac{1}{8}$" | " 3000 | | | | | | | |
| | | 3 | Coloured cathedral glass, of sorts | sq ft 3450 | | | | | | | |
| | | 4 | " glass rounds about 3" & 4" dia., various colours | No. 600 | | | | | | | |
| Indt. df | 30 May | | No Orders have yet been given. Indent will be detailed in the next Return | | 426 | | | | | | |
| | 17 July | | | | | | | | | | |
| | (9.26) | | | | | | | | | | |

A Y 16589. 3000.—2/88. L. 70.

| Indent or other demand: No. | Date— 1, of Indent; 2, of Receipt; 3, of Sanction by Sec. of State in Council. | No. of Item. | Articles: Description. | Quantity. | Estimated Cost of Indent; and Contract Prices. £ | s. | d. | Particulars of Orders: Date of Contract. | Name of Contractor. | Probable Date of Shipment. | Shipments (Quantity, Name of Vessel, and Date of Sailing); or Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 1888 | | 1888 | |
| 3 | contd. | | Stock contd. | | | | | | | | |
| | | 72 | Zinc sheets perforated 7' x 3' | No. 25 | 25 | | 11 | 14 May | London Zinc Mills | | Shipped per s.s. Manora (June) |
| | | 73 | " plain 7' x 3' | " 50 | | | | | | | |
| | | 75/6 | Copper sheet of sizes | cwt 12 | 51 | | | 18 | Pontifex & Co. | | |
| | | 77/9 | Iron, flat, " | tons $1\frac{1}{4}$ | | | | | | | |
| | | 80/4 | square " | " 8 | | | | | | | |
| | | 85/94 | round " | " 33 | 31 | 8 | 9 | 19 | Shelton & Co. | | Shipped per s.s. Clan Macarthur (July) |
| | | 95/100 | angle " | " $\frac{7}{2}$ | | | | | | | |
| | | 101 | T 2" x 2" x $\frac{1}{4}$" | " 1 | | | | | | | |
| | | 102/17 | sheet of sizes | " $7\frac{1}{2}$ | 488 | 8 | 9 | 19 | Do. | | Shipped per s.s. Clan Macpherson (July) |
| | | 118/20 | Steel cast octagon of sizes | cwt 15 | 10 | 0 | | 19 | Howell & Co. | | " " Manora (June) |
| | | 121/2 | Wire iron of sizes | ton 1 | 8 | 5 | | 19 | Johnson & Stephens | | Shut out of s.s. Dacca & shipped per s.s. India (Aug) |
| | | 123/5 | Iron, Swedish flat of sizes | " 2 | 2 | | | 30 | C. Lawson | | Shipped per s.s. Navarino (Aug) |
| | | | Machinery. | | | | | | | | |
| | | 1 | Boiler for 12 HP. engine with fittings complete. To be shipped to Coconada. | No. 1 | 205 | | | 25 | Marshall & Sons | Sep | |
| | | 2 | Cupola for iron foundry, to melt 1 ton with new patent blower. | " 1 | 120 | | | 28 | Thwaites Bros. | | Shipped per s.s. Clan Drummond (Aug) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **Stock.** | | | | | | | | |
| | | 1 | Bricks fire wall 9" x 4½" x 2½" | No. 500 | 2 | | 6 | 25 May | Harris & Pearson | - | Shipped per s.s. Manora (June) |
| | | 2/16 | Rivets iron, of sizes | cwt 115 | 71 | | 6 | 28 " | Pat. Nut &c. Co. | - | " " Roma (July) |
| | | 17 | Locks pad brass 2½" | No. 12 | [illegible] | | [illegible] | 29 " | Chubb & Son | - | " " Rewa (July) |
| | | 18/20 | Brass wire cloth of sorts | yds 60 | 20 | | . | 17 " | Bedford Skeet & Co. | Aug. | |
| | | 21/32 | Screws brass, of sizes | gross 40 | 26 | | 11 | 8 " | Nettlefolds | - | Shut out of s.s. Dacca & shipped per s.s. Manora (June) |
| | | 33/48 | " iron | " 326 | | | | | | | |
| | | 49 | Nails wire 1" 6 6" | cwt 6 | 3 | | 4 | 12 " | Shaw & Sons | - | Shipped per s.s. Navarino (Aug.) |
| | | | Corrug^d galv^d iron sheets for roofing with screws, rivets & washers:- | | | | | | | | |
| | | 52 | 8 feet | Tons 10 | | | | | | | |
| | | 53 | 7 " | " 5 | | | | | | | |
| | | 54 | 6 " | " 5 | 254 | | 3 | 29 " | J. & C. Holcroft | Aug. | |
| | | 55 | Ridging galv^d with screws, washers, rivets, &c. | ft. 204 | | | | | | | |
| | | 56 | Iron pig foundry | tons 80 | 184 | | . | 17 " | Baird & Co. | - | Shipped per s.s. Clan Macpherson (July) |
| | | 57/9 | Locks door, iron of sizes, with screws | No. 78 | 17 | [illegible] | 6 | 18 " | Buck & Co. | Aug. | |
| | | 60 | Paint light lead | cwt 6 | - | | - | - | - | | |
| | | 61 | " oak | " 8 | | | | | | | |
| | | 62 | Prussian blue powder | " ¼ | | | | | | | |
| | | 63 | Black Japan | galls 3 | | | | | | | |
| | | 64 | White lead | cwt ½ | 39 | | 6 | 29 " | Rose & Co. | - | Shipped per s.s. Rewa (July) |
| | | 65 | Paint black | " 2¼ | | | | | | | |
| | | 66 | " white | " ¼ | - | | | - | - | | |
| | | 67 | " dark green | " 1 | - | | | - | - | Aug. | |
| | | 68 | " chocolate | " 1½ | - | | | - | - | | Shipped per s/s Rewa (July) |
| | | 69 | Oil linseed raw | galls 25 | | | | | | | |
| | | 70 | " boiled | " 325 | 28 | | 2 | 19 " | Pilcher & Sons | - | Shut out of s.s. Dacca & shipped per s.s. Manora (June) |

X X

A Y 16589. 3000.—2/88. L. 70.

| Indent or other demand. No. | Date— 1, of Indent; 2, of Receipt; 3, of Sanction by Sec. of State in Council. | No. of Item. | Articles. Description. | Quantity. | Estimated Cost of Indent; and Contract Prices. £ | s. | d. | Particulars of Orders. Date of Contract. | Name of Contractor. | Probable Date of Shipment. | Shipments (Quantity, Name of Vessel, and Date of Sailing); or Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | cont^d | | **Instruments cont^d** | | | | | 1888 | | 1888 | |
| | | 17 | Squares T 52" | No. 2 | - | | - | - | - | - | |
| | | 18 | " " 45 | " 2 | | | | | | | |
| | | 19 | " set pear wood 9" 60° & 30° | " 2 | | | | | | | |
| | | 20 | " " 6 45° | " 2 | | | | | | | |
| | | 21 | Triangles wood base 12" perpendicular 21 inch | 1 | (See [illegible] | | 5) | 4 June | W^m F. Stanley | | Shipped per s.s. Navarino (Aug.) |
| | | 23 | Boards drawing antiquarian | " 2 | | | | | | | |
| | | 24 | " " dble elephant | " 2 | | | | | | | |
| | | 25 | " " imperial | " 2 | - | | - | - | - | - | |
| | | | **Tools & Plant.** | | | | | | | | |
| | | 1 | Axes pick 7 lbs | " 1344 | 80 | 8 | 7 | 18 May | Brid & Co. | - | Shipped per s.s. Roma (July) |
| | | 2/4 | Hammers sledge of sizes | " 287 | 31 | 3 | 7 | 18 " | Buck & Co. | - | Shipped per s.s. Rewa (July) |
| | | 5/7 | Mamooties of sizes | " 1383 | 1[illegible] | 5 | 10 | 31 " | Thornton & Co. | Aug. | |
| | | 8 | Stones oil Turkey in case | " 5 | [illegible] | [illegible] | 6 | 18 " | Buck & Co. | Aug. | |
| | | 9 | Buckets, iron galv^d | " 285 | [illegible] | [illegible] | 0 | 20 " | J. Lea | - | Shipped per s.s. Navarino (Aug.) |
| | | 10 | Screw wrench, adjustable | " 20 | | | | | | | |
| | | 11 | Planes jack | " 4 | [illegible] | [illegible] | 4 | 18 " | Buck & Co. | Aug. | |
| | | 12 | " trying | " 6 | | | | | | | |
| | | 13 | Stones grinding, 30" x 4 | " 6 | [illegible] | [illegible] | | 25 " | - Do. - | - | Shipped per s.s. Rewa (July) |
| | | 14 | Chain iron ½ | [illegible] 68 | | | | | | | |
| | | 15 | " " ¾ | " 84 | [illegible] | [illegible] | | 29 " | Bartlet & Co. | - | Shipped per s.s. Roma (July) |
| | | 16/21 | Saws, band, 3" dia. of sizes | No. 24 | - | | - | - | - | - | Supply awaits reply to Ltr. to Sec. to Gov^t of Madras d^d 4 May 1888. |
| | | 22 | Braces patent, large | " 11 | | | | | | | |
| | | 23 | " " small | " 2 | 3 | | 4 | 18 May | Buck & Co. | Aug. | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 30 | Conveyors antifriction No. 8 patent with ordinary spiral & steel trough each 10' long, complete with necessary end castings & hangers:- | | | | | | | | |
| | | | | Right handed | No | 1 | | | | | | |
| | | | | Left " " | " | 1 | 28 | | 4 June | Antifriction Conveyor Co. | - | Shipped per s.s. Maple Branch (July) to Bombay, to be transhipped to Tuticorin |
| | | 1888. | | | | | | | | | | |
| | 3 | 11 Feb | | | | | | | | | | |
| | | 13 Mar. | | Instruments. | | | | | | | | |
| | | 1 May | 1 | Chain iron galvd 100' with arrows | No. | 54 | 23 | | 10 May | Chesterman & Co. | - | Shipped per s.s. Rewa (July) |
| | | (97) | 2/4 | Levelling instruments, dumpy, reversible, with stand: of sizes | " | 40 | 202 | | 10 | Cooke & Son | Oct | |
| | | | 5/6 | Mathematical instt. box 1st class | " | 27 | 216 | | | | | |
| | | | | 2nd " | " | 36 | (included in 12" | | 4 June | W. Stanley | - | Shipped per s.s. Navarino (Aug.) |
| | | | 7 | Tapes measuring metallic 100' | " | 81 | | | | | | |
| | | | 8 | 50 | " | 112 | 54 | | 10 May | Chesterman & Co. | - | Shipped per s.s. Rewa (July) |
| | | | 10 | Curves drawing pen tree architect set of 6 each | set | 1 | | | | | | |
| | | | 11 | Horn centres | No. | 12 | | | | | | |
| | | | 12 | Lettering sauares | " | 6 | | | | | | |
| | | | 13 | Scales of Standard measure 3' & 5 links in case complete marked No. 10 | | 1 | (see item 6) | | 4 June | W. Stanley | - | Shipped per s.s. Navarino (Aug.) |
| | | | 14 | Scales computing | " | 2 | | | | | | |
| | | | 15 | Needles protracting | " | 12 | | | | | | |

A X 16589. 7000.—2/88. I. 70.

| Indent or other demand. | | Articles. | | | | Estimated Cost of Indent; and Contract Prices. | | | Particulars of Orders. | | | Shipments (Quantity, Name of Vessel, and Date of Sailing); or Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Date— 1, of Indent; 2, of Receipt; 3, of Sanction by Sec. of State in Council. | No. of Item. | Description. | Quantity. | | £ | s. | d. | Date of Contract. | Name of Contractor. | Probable Date of Shipment. | |
| 3/69 I | cont^d | | For Penyar Project cont^d | | | | | | 1888 | | 1888 | |
| | | 24 | Shutters W.I. or steel plate, semicircular 16' dia., 20' high, in 5 sections, each 4' high. | No. | 2 | 161 | | | 11 June | Pat. Shaftron | Sep. | |
| | | 25 | Piping W.I. or steel 12" dia., including 3 bends of 15° each, for pressure of 180 ft. of water, with bolts, nuts, washers, &c. | ft. | 400 | | | | | | | |
| | | 26 | Branch, Rt angled, from 1" to 1½" dia. | No. | 1 | | | | | | | |
| | | 27 | Piping W.I. or C.I., 1½" dia., with six bends of 90° & 6 of 30°, with all bolts, washers &c. | ft. | 100 | 200 | | | 6 " | J. Russell & Sons | Aug. | |
| | | 28 | Branches, short 1" dia. from 1½" pipe, end of each branch fitted with a 1" brass cock | No. | 12 | | | | | | | |
| | | 29 | Standcocks 1" dia., 30" high, with necessary branches for connections with 1½" main pipe | | 12 | | | | | | | |

| Indent or other demand. No. | Date— 1, of Indent; 2, of Receipt; 3, of Sanction by Sec. of State in Council. | No. of Item. | Articles. Description. | Quantity. | Estimated Cost of Indent; and Contract Prices. £ s. d. | Particulars of Orders. Date of Contract. | Name of Contractor. | Probable Date of Shipment. | Shipments (Quantity, Name of Vessel, and Date of Sailing); or Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | | 6 | Fan to exhaust 6000 cub. ft. of air per minute | No. 1 | | | | | |
| | | 7 | Apparatus for electric firing | " 1 | | | | | |
| | | 8 | W.I. pipes & washers, steel drills, I.R. hose, main cocks & reserve parts | As necessary | (See [illegible]) | 9 Apl | Schram & Co. | - | Shipped per s.s. Maple Branch (July) to Bombay, to be transhipped to Tuticorin |
| | | | Disintegrators with conveyors, countershafting & pulleys &c. | | | | | | |
| | | 10 | To reduce 4 to 5 tons of hydraulic lime per hour | No 2 | | | | | |
| | | 11 | To reduce 3 tons of burnt clay per hour | 2 | 627 | 8 May | Grinding Machinery Co. | | |
| | | 12 | Mortar mixers, to mix 150 cub. ft. per hour each | 2 | | | | | |
| | | 13 | Concrete " " 360 " | 2 | 276 | | | | |
| | | 14 | Pump to throw 3000 galls. per hour, with suction pipe | 1 | 53 | 28 Apl | E. E. Hall | Early in Oct | |
| | | | Wire tramways:- | | | | | | |
| | | 15 | To carry 100 tons per day with bangles & driving gear | ft 15,600 | 1871 | | | | |
| | | 16 | " 200 " " 3 " | 2,600 | 931 | 11 May | Bullivant & Co. | Aug | |
| | | | Turbines:- | | | | | | |
| | | 17 | To indicate 150 HP. with head of 20 ft. including casing, draft tube, and gearing to main shaft | No. 1 | | | | | |
| | | 18 | To indicate 60 HP. with head of 160 ft. including casing | 1 | 438 | 12 " | J.W. Lord | Aug | Shipped per s.s. Navarino (Aug.) to Colombo, to be transhipped to Tuticorin |
| | | 19 | — Do. — Do. — Do. — Do. — | 1 | (see [illegible]) | 9 Apl | Schram & Co. | Aug | |
| | | 20 | Steamer, about 8 tons displacement, 35 HP. | 1 | 440 | - | - | - | The Contract of Clarke & Co. has been cancelled. |
| | | 21 | Rowing boat, 4 oared | 1 | | | | | |
| | | | " pair oared | 1 | 59 | 11 June | Forrest & Son | - | Shipped per s.s. Maple Branch (July) to Bombay, to be transhipped to Tuticorin |
| | | 23 | Shafting & mill gearing &c. | As required | 175 | 10 " | Bever & Dorling | Aug. | |
| | | | **Madras Public Works** | | | | | | |
| [illegible] | 1887. | | | | | | | | |
| Local and Municipal Secy Letter No 1013 L. | 8 Oct, 7 Nov. 1888, 17 Jan. (8.122) | | For Bridge over Tambraparni River. To be consigned to Tuticorin. | | | 1888 | | 1888 | |
| | | | Plate girders, clear span 37 ft. complete riveted for erection | span 33 | 2675 17 0 | 3 Feb. | Charleston Fdy Co. | Aug. | 10 per s.s. Hangra (Aug) to Bombay, to be transhipped to Tuticorin |
| Pub. Wks Secy Pres. No [illegible] W.d. [illegible] W.d. | 1 Feb '86, 21 Sep '87, sanctioned 13 Dec. 87 (8.123) | | Standard types of Road Bridges, 23 drawings | Of each Drawing Copies 25 | 10 | 25 Jan | Standedge & Co | Aug | Recd |
| | | | Specifications of Do. | copies 25 | - | - | From Store | Aug. | |
| [illegible] 69 I. | 1888, 30 Jan, 20 Feb., 7 Apl. (8.125) | | For the Periyar Project. To be consigned to Tuticorin. | | | | | | |
| P. Project | | 1 | Rock boring machines complete | No. 8 | | | | | |
| | | 2 | Carriages for four drills, with air receivers | 2 | | | | | |
| | | 3 | Air compressors | Pair 1 | 2485 1 6 (including [illegible]) | 9 Apl | Schram & Co | - | Shipped per s.s. Maple Branch (Jul) to Bombay, to be transhipped Tuticorin |
| | | 4 | " distributor | No. 1 | | | | | |
| | | 5 | Water injector | 1 | | | | | |

ENCLOSURE
18 NOV 88
1773

Service. Madras Public Works

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*Bi-Monthly Return* of Stores under provision by the Director-General of Stores for India up to 31. July 1888.

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INDIA OFFICE,

LONDON,

17. Aug. 1888

A. ABERCROMBIE JOPP,

*Director-General of Stores.*

N.B.—This Return includes all Stores under supply in England. Stores reported in this Return to have been shipped will not be inserted in future Returns.

A Y 16588. 1000.—2/88. I. 69.