M.R.O. 1—77,006—8-6-37.

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1

# MADRAS RECORD OFFICE.

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## Government of Madras.

Public Works **DEPARTMENT.**

Com. 31.12.59

| G.O. No. | 2975 | Press / Mis. |
|---|---|---|
| 33-34 Dated | 22-12- | 1859. |

***Not to be folded or roughly handled***

*Proceedings of the Madras Government, Public Works Department, for the month of December* 1859.

No. 33. Read the following Proceedings of the Madras Government in the Military Department, dated 13th December 1859, No. 4408.

Sanctioning the execution of the works connected with the barracks, Fort Saint George, out of the funds placed at the Garrison Engineer's disposal for the current year. } (Vide Military Proceedings from 11th to 20th December 1859, Nos. 78-79.)

No. 34. ORDER THEREON, 22nd December 1859, No. 2975.

Ordered to be communicated to the Chief Engineer with reference to his letter dated 21st November 1859 No. 7485.

(Signed) L. FORBES,
*Dy. Secretary to Government.*

Entry & conveying them into
to Consultation yard. — Ea 1 .. .. 12
Carried over ——— 362

## Memorandum.

No 9021
Forwarded
16 Jan/60

The Chief Engineer has the honor to request that the Plan and Estimate forwarded with his letter to the Secretary to Government Public Works Department, dated 21st November last, No 7485, may be returned to this Office, as they have been applied for by the Garrison Engineer.

Central Office of E. P. W.
Sepahkam
11th January 1860.

J. Hill Lieut. Colr
Chief Engineer

To,
The Secretary to Government
Public Works Department.

Fr. Quay

Entry & conveying them in to Carpenters yard. — 8d 1 .. .. 12

Carried over ——— 362

# Buildings. [New Work]

Abstract of Estimate No. of 185 .5

District. Madras

Work. Making certain Alterations and improvements to the interior of the Royal Barracks Fort St. George.

| Quantities | Description of Work | Rate | | | Amount | Amount for each part |
|---|---|---|---|---|---|---|
| C. Yds. | No. 1. | Rs. | as. | P. | Rupees | Rupees |
| | Directing the Officers Quarters in the Upper Story at the South end of the Barracks to be converted into quarters for the men. | | | | | |
| 2930 | Cubic ft. Cutting and removing old masonry hard and tedious work @ ¼ | " | 1 | 6 | | 275 |
| 60 | " ——— Brick work in chunam for rebuilding a partition wall with and steps ——— " | " | 2 | " | | 8 |
| 110 | " ——— Circular arch work in chunam executing same very closely and carefully for 3 archways | " | 4 | " | | 35 |
| | Centering to do. do. ——— | | | | | 12 |
| | Removing 12 old doors and filling the holes with masonry & conveying them into Contractors yard. ——— 8a | | 1 | " | | 12 |
| | | | | | Carried over ——— | 342 |

Bills Rd. Inft.

No. 94.

From the Chief Engineer

To the Secretary to the Government of Fort St. George Public Works Department

Dated 9 January 1860

Rec'd 12 do.

Requests to return the countersigned Plan and Estimate for work in Fort St. George.

| Quantities | Description of Work | Rate | | | Amount | Amount for each part |
|---|---|---|---|---|---|---|
| C. Feet. | | Rs | As | P | Rupees | |
| | Brought over | | | | 362 | |
| | Carpenters and coolly hire for removing 12 old Sash and plaster partition walls between the arches and conveying them into Yard | Co | 3 | " | " | 36 |
| | Coolly hire for felling 20 Poles of the 12 wooden Screens between the arches with masonry | " | 4 | " | " | 30 |
| | Coolly hire for removing 13 old masonry fixed Shinnies Places lined with Shut lead and conveying them to the Carpenters yard | " | 1 | 8 | " | 20 |
| | Coolly hire for removing 6 old wooden Screens on the East side and refilling the holes with masonry and conveying them to the Carpenters yard | Co | 2 | 8 | " | 15 |
| | Carried over | | | | | 443 |

| Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|
| Brought over | | 443 | |
| Coolly hire for removing 53 Jams old doors windows and glazed shutters and conveying them to the Carpenters yard Co | 8 | 27 | |
| Coolly hire for removing 5 old Venden sponts & filling the spaces with masonry and flooring over with square bricks in Chunam Co | 2 8 | 13 | |
| Coolly hire for removing an old sloth screw and refixing a wooden one with masonry over the Stair Case | | 4 | |
| Coolly hire for cutting the wall and fixing wooden jails at a window near the Stair Case | | 2 | |
| Coolly hire for removing the old honey comb tiles and plastering the sides across the west Verandah | | 1 | |
| Carried over | | 490 | |

| Quantities | Description of Work. | Rate | Amount | Amount for each sort |
|---|---|---|---|---|
| | Brought over | | 190. | |
| 6/4 | Squares. Removing the old square brick floor and covering over with Asphalte of 3/4 inch thick with a levelling course of old bricks pointed in Cement in East West Verandah | | | |
| | 1 Sqre. | 20 l.n. | 12. | |
| 3167 | — " — Whitewashing in Cement with 2 coats throughout the walls | " 2 6 | 54 | |
| 16 | — " — Repairing the plaster with 2 coats cement where required to the sides of the doors and archways | 1 11 9 | 31 | |
| 20 | — " — Repairing the plaster with 2 coats cement to the arches | 2 6 " | 47 | |
| 12 | — " — Repairing the floor with 10 inch square bricks in cement where required | 5 11 " | 70. | |
| 1 | — " — Do with 8 inch square bricks in cement where required. | 5 1 - | 5 | |
| | Carried over | | 829 | |

| Quantities | Description of Work. | Rate | Amount | Amount for each sort |
|---|---|---|---|---|
| | Brought over | | 829 | |
| 3/4 | Squares Pointing in Cement to the common floor 1 Sqre | 5 7 | 12. | |
| | Carpenters coolly hire for repairing the old wooden screen near Main Case with new teakwood frame half old and half new mango planks new bat. fan nails hinges and bolts &c.a | | 15 | |
| | Slight repairs to 19 doors bolts and hinges with teakwood frames battens and venetians oiling the bolts &c.a Each | 1 " " | 19. | |
| | Slight repairs to 61 windows the venetians being chopped in many places | 2 8 - | 152 | |
| 2/7 | Squares red paint 1 coat painting to the new parts of the venetians 1 Sqre | 15 - | 2 | |
| 2 | — " — Second paint 2 coats to the wooden screen door & the Stair case | 1 12 " | 3 | |
| | Sundry charges for Scaffolding &c.a | | 53 | |
| | Carried over | | | 1085 |

| Quantities | Description of Work | Rate | Amount | Amount for each sheet |
|---|---|---|---|---|
| | No 2 Brought over | | | 1085 |
| | Dressing down packing Planks & holes &c to be put up in the Officers quarters Subalterns & Sick Barracks for the mend. | | | |
| | Cooly hire for pulling the roofs and fixing do | | | |
| | Barracks with masonry | " 1 " | 161 | |
| | Cooly hire for pulling the roofs and fixing the accontrement planks and 720 turned pegs with masonry | 8 " " | 23 | |
| 7½ | 2 nb ft. Teakwood morght and put up 7 ft 5 | 2 1 " | 161. | |
| 19½ | — " — Teakwood morght and put up 9 ft 5 | 2 8 " | 49. | |
| 720 | Teakwood turned pegs of 13 ins lg 2 ins diam | " 3 " | 135 | |
| 172 | 1 Running feet making 161 Teakwood plinths of different sizes fixed with screws nails over the brackets | " 8 " | 361 | |
| | Carried Over | | 890 | 1085 |

| Quantities | Description of Work | Rate | Amount | Amount for each sheet |
|---|---|---|---|---|
| | Brought over | | 890 | 1085 |
| Rs ft 337 | Making 168 Teakwood accontrement planks of different sizes and fixing same — 337 ft | " 4 " | 84 | |
| 17 | Running feet 1 New Punkah dowl frame brown holland fringes 6 pair brass bamboo headed hooks 3 pair brass pulling hooks cotton suspenders pulling ropes white cloth covering & punjum cloth inside painted 3 coats with proper oil &c complete | 1 10 " | 27. | |
| 49⅓ | 29 Do — Do — Do | 27 10 " | 801. | |
| | Altering and repairing 13 old punkahs with new cotton ropes suspenders pulling ropes covering white cloth and refixing the same on the east and west side &c | 5 " " | 65 | |
| | Sundry changes & scaffolding &c | | 93 | |
| | | | | 1960 |
| | Carried Over | | | 3045 |

| Quantities | Description of Work. | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over | | | 3015 |
| | No 3 | | | |
| | Cutting down the pendants in the north and south sides of the Barracks to the ground placing half down on the latter side and fulling over the centres substituting for the large arches at first proposed | | | |
| 1195 | Cub. ft. Cutting and removing old masonry hard and be- -coming bricks ——— Sft. | " 1 6 | 112 | |
| 1110 | Sup. ft. Flooring with 2 Inches dressed new granite stones per chunam to the new door sills ——— Sft. | " 2 3 | 35. | |
| 2 | Spaces removing the old bricks plain floor and pulverizing the same with 2 Inches dressed new granite stone per chunam with an Levelling course of old bricks underneath for lowering the floor of the Store Room ——— Do. | 26 8 | | |
| | Carried over ——— | | 200 | 3015. |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over ——— | | 200 | 3015 |
| | Taking up and pulverizing part of Stair Case and refilling & granite stones half old & half new ——— | | 30 | |
| 136 | Cub. ft. Bricks in work in chunam ——— Sft. | " 2 " | 17 | |
| 2/4 | Squares Plastering with 2 coats chunam Sft. | 1 13 9 | 4 | |
| 20 | Cub. Yds. Removing the mud for lowering the floor | " 1 " | 1 | |
| | Cooly hire for removing 2 old wooden screens and filling 16 holes with masonry | " 1 " | 16 | |
| | Cooly hire for cutting and fixing a wooden sail with Iron bolts in chunam between arches of the Store Room ——— | | 1. | |
| | Cooly hire for cutting the wall & removing the old Iron stones filling the holes with masonry | " 8 " | 12. | |
| | Stone cutters Cooly hire for cutting 19 key stones between ——— | | | |
| | Carried over ——— | | 329 | 3015. |

| Quantities | Description of Work. | Rate | Amount | Amount for each sort. |
|---|---|---|---|---|
| | Brought over | | 329. | 30.65. |
| | between the arches of the B windows covered with slim. slates and B arch turned with head ——— Co | " 10 " | 12. | |
| | Cost this for cutting the wall and fixing 12 hog in granite stone with masonry | " 10 " | 32 | |
| | Repairing the sides of the front door with plaster and pencilling it close with half old thick slates in chunam ——— | | 30. | |
| | Cost this for removing 26 old deathwood backs of the Sattan Shutters over the windows and filling the holes with masonry | " 5 " | 5 | |
| | Carpenters and ironmongery this for putting and removing 13 old venetian windows in and carrying them to the Carpenters yard ——— Co | " 8 " | 6. | |
| 80 | Square Chittam hung in chunam with 2 coats ——— Superc | " 2 6 | 15 | |
| | Carried over | | 427 | 30.65. |

| Quantities | Description of Work. | Rate | Amount | Amount for each sort. |
|---|---|---|---|---|
| | Brought over | | 427 | 30.65. |
| 15 | Squares. Repairing the plaster with 2 coats chunam and when required to the with wall of the window shutters and architraves Superc | 1 " 9 | 29 | |
| 3 | Do Repairing the plaster with 2 coats chunam where required to the outside Do | 2 " 3 | 6 | |
| 1 | Do Painting with chunam to the granite floor where required | " 9 6 | 2 | 5 |
| 1 | Pair half Sattan door shutters with hooks hinges screw nails and Sash the hooks and in close with Cord complete ——— | | 21 | |
| 1 | Large — do — do ——— | | 19. | |
| 1 | Pair — do — do ——— | | 24. | |
| 1 | Pair — do — do ——— | | 25 | |
| 2 | Pairs — do — do | 24 " 6 | 49 | |
| 7 | Pairs — do — do | 20 " 6 | 142 | |
| 1 | Pair — do — do ——— | | 20 | |
| 1 | Teakwood common rail with 8 square Cotton frames for Stair Case ——— | | 6 | |
| | Carried over ——— | | 338 | 30.65. |

| Quantities | Description of Work. | Rate | Amount | Amount for each part. |
|---|---|---|---|---|
| | Brought over | | 331 | 3900 |
| | and filling the holes with masonry | | 3 | |
| | Cooly hire for removing 15 old fixed partition and batten shutters with frames and conveying them to the Carpenters Yard — Co | " 2 " | 7 | |
| 116 | Squares Whitewashing in chunam with 2 coats P Sqre | " 2 6 | 7 | |
| 16 | — D° — Repairing the plaster with 2 coats chunam where required to the windows inside which were converted into doors | 1 11 9 | 31. | |
| 12 | — D° — Repairing the plaster with 2 coats blue chunam outside P Sqre | 2 " 3 | 26. | |
| 3 | — D° — Painting in chunam the granite stone where repaired | " " 9 4 | 2 | |
| | Cooly hire for repairing the plaster with 2 coats chunam to the base and sides of the half masonry columns and 5 pilasters in the outside | " 8 " | 10 | |
| | Removing 2 doors and cutting the sides and replastering P° | 2 " " | 6 | |
| | Carried over | | 419 | 3900 |

| Quantities | Description of Work. | Rate | Amount | Amount for each part. |
|---|---|---|---|---|
| | Brought over | | 335 | 3900. |
| | Seamus Red pointed coral to the half brick pillars | " 15 " | 5 | |
| | Standing charges and carpenters hire | | 62 | |
| | | | | 455. |
| 1160 | Marking drawings in the north side of the Chunam Cooly for cutting and removing old masonry here and below to P Sqre | " 1 6 | 135 | |
| 285 | Superficies Flooring with Chinese dressed new granite stone in chunam to 19 stone rooms — P Sqre | 25 3 " | 77 | |
| | Cooly hire for cutting the wall and fixing 150 Chinese granite stones with masonry to 15 stone | " 10 " | 94 | |
| | Cooly hire for cutting the wall and fixing 120 ends of the Chinese granite of the windows — Co | " 1 " | 36 | |
| | Cooly hire for removing the old brackets and cleaning for arms and accountrements | | | |
| | Carried over | | 331 | 3900. |

| Quantities | Description of Work | Rate | | Amount | Amount for each part |
|---|---|---|---|---|---|
| | Brought Over | | | 419 | 3960. |
| 15 | Iron Iron bar windows with Scotchwood sash bottom and outer longitudinal cross bars with half old and half new rubbish iron bars ——— Qa | 60 | " " | 600 | |
| 15 | Pairs strong folding Cottage doors double skin boards iron hooks laid in stone iron clamps long and strong hinges bolts and some nails complete ——— Qa | 58 | 10 | 879 | |
| | Pair ——— do — do — | 30 | 12 " | 361. | |
| 15 | Lyme Red paint 1 coat to the 15 doors — Pair S | " | 15 " | 19 | |
| 21 | Black paint 2 coats with linseed oil to the iron bars — Qa | 1 | 10 " | 2 | |
| | Sundry charges and sundry following Qa ——— | | | 119 | |
| | ——— | | | ——— | 2305 |
| | Assuming the Staff Sergeants 2 months in the lower story of the next range on the Barracks. | | | ——— | |
| | Carried Over ——— | | | ——— | 6105. |

| Quantities | Description of Work | Rate | | Amount | Amount for each part |
|---|---|---|---|---|---|
| | Brought Over | | | | 6105 |
| 520 | Cubic ft Cutting and removing old masonry hardwork | " | 1 | 6 | 30 |
| 100 | " Brick work inclusive of new for rebuilding the space of the 3 doors 3 windows over the frames | " | 2 | " | 20 |
| 10 | " Flat arch work in 1 Thickness over 5 doorways | " | 2 | 6 | 12 |
| 22 | " Circular arch work in 1 thickness over 2 doorways ——— Qa | " | 3 | 3 | 6 |
| | Constituting 8 masonry stands of 2 steps each and facing with new 2 hammered granite stones in each front, in front of the doorways ——— Qa | 11 | " | " | 88 |
| | Cubic Line for fixing 8 old doors with masonry and plastering complete | 2 | " | " | 16 |
| | Cutting the wall and fixing 106 brackets with masonry ——— Qa | " | 1 | " | 26 |
| | Cubic Line for cutting and opening 3 doorways & fixing the doors with mason | 3 | " | " | 9 |
| | Carried Over ——— | | | 225 | 6105. |

| Quantities | Description of Work | Rate | Amount | Amount for each Item |
|---|---|---|---|---|
| | Brought over | | 225 | 6,605 |
| | Cooly hire for fixing 6 old windows with iron bars in masonry and plastering complete ——— Co | 2 " " | 12 | |
| | Cooly hire for removing the brackets shafts and planks of the 2 old shuttle alleys and filling the holes with masonry and repairing the granite floors in Chinam | 5 " " | 10 | |
| 21 | Sup. Syt. — Covering with 2 line dressed granite stones in chunam the sill of 8 doorways Sup. | 25 3 " | 20 | |
| 10 | Squares Whitewashing in chunam with 2 coats throughout the Serpentine quarters ——— Squ. | " 2 6 | 6 | |
| 5 | Squares. Repairing the plaster with 2 coats chunam where required Co | 1 10 9 | 10 | |
| 3 | Do ——— Repairing the plaster with 2 coats chunam where required Co | 2 " 3 | 6 | |
| | Carried over | | 289 | 6,605 |

| Quantities | Description of Work | Rate | Amount | Amount for each Item |
|---|---|---|---|---|
| | Brought over | | 289 | 6,605. |
| 10 | Sq. Yds. Painting in chunam the Serpentine Floor | " 9 " | 6 | |
| | 6 Single Canopo canvass screens with Teakwood fixed Stands and bottom frames and a door in centre and painting complete ——— Co | 56 " " | 336 | |
| | 6 Basin stands with holes fixed by screw nails over the bracket complete Co | 3 8 " | 21 | |
| 02 | Turned pegs 9 Inch by 2 inches | " 3 " | 19 | |
| 18 | Do 9 Inch by 1½ Do | " 2 " | 2 | |
| 230 | Running feet Making 25 Teakwood shelves of different sizes 12 Inch by 1 inch and fixed with screw nails Sft. | " 8 " | 115 | |
| 136 | Do Making 33 Teakwood accustomed planks fixed with master nails | " 4 " | 34 | |
| 11 | Iron hooks of 9 inch long for repairing old doors complete Set | " 8 " | 7 | |
| 12 | Iron cross hinges of 9 inch with screw nails ——— Co | 2 " " | 6 | |
| 3 | Iron cross bolts of 9 inch with screw nails ——— Co | " 10 " | 1 | |
| | Altering and reducing Wood doors with new Teakwood bottom rails & also repairing the hooks & hinges &c ——— Co | 3 " " | 33 | |
| | Carried over | | 371 | 6,605 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over | | 171. | 6.05. |
| | Fitting 6 windows with back board nails and nailing and lengthening the iron bars 2 3/4 ——— Ea | 1 " " | 6. | |
| | Fitting the door with new teakwood and nails as found necessary ——— | | 5 | |
| 1 | Square Red paint 1 coat to the new Gallery 15 3/4 | " 15 " | 1 | |
| 51 | Running ft. Granite pave Bath round covered with cut stone and grouted | 2 " " | 100 | |
| 9 | Cub. ft. 16 th Brackets Ea teakwood average weight and fixed complete ——— 9 1/2 | 2 1/2 " | 19 | |
| | Sundry charges and scaffolding 15 ea ——— | | 50 | 1070 |
| | Running the cross walks round the Arcades on the east side of the Royal Guard Room | | | |
| 600 | Cub. ft. Cutting down brick arcade walls removing them with archaeology hand and taking work left | " 1 6 | 56 | |
| | Carried over | | 36 | 76 25 |



| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over | | 56 | 7675 |
| | Cooly hire for cutting the wall and fixing 16 brackets with masonry and plastering for shelves @ | " 16 " | 4 | |
| | Cooly hire for cutting the wall and fixing & accoutrement shelves with 24 turned pegs with masonry @a | " 12 " | 2. | |
| 75 | Superfl. Flooring with granite stones in chunam between the 11 arches | 25 3 " | 19. | |
| 13 | Squares. Painting in chunam to the granite floor | " 9 1/2 | 8 | |
| 2 | Ea Repairing the plaster with 2 coats chunam to the arches | 2 6 " | 5 | |
| 1 1/2 | Cub. ft. 16 Teakwood brackets @a weight & fixed complete | 2 1/2 " | 3 | |
| 36 | Running ft. Making & teakwood shelves of different sizes and fixed with screw nails | " 8 " | 18 | |
| 32 | Ea Making & teakwood accoutrement planks fixed with rafter nails | " 1 " | 8 | |
| | Carried over | | 123 | 7675 |

| Quantities | Description of Work | Rate | Amount | Amount per each plan |
|---|---|---|---|---|
| | Brought over | | 265 | 7,608. |
| | Cooly hire for cutting the wall and fixing 48 hing granite stones with ma sonry to the 6 doors @ | " 10 " | 30. | |
| 30 | Squares Whitewashing in Summand with 2 coats | " 2d | 5 | |
| 3 | Do — Renewing the plas ter with 2 coats plue | | | |
| | Summand to the outside | 2 - | 3 | 6. |
| 6 | — Do — Do — Shelves & the doors | 1 " | 9 | 11 |
| 6 | Fixed iron bed iron doors with teakwood top cloths and centre frames ver tical iron cross bars with half new and half old new irons — 6@ | 30 " | " | 180 |
| 6 | Pair strong folding batten doors double shutter rille iron hooks laid in stone string long and folding hinges bolts & screwed nails @ 49 | 8 " | | 297. |
| | Teakwood rails with top and bottom frames & mmee door with ironing drawer trap door to serve out liquor also iron railing complete | | | 110 |
| | Carried Over | | 904 | 7,608. |

| Quantities | Description of Work | Rate | Amount | Amount per each plan |
|---|---|---|---|---|
| | Brought over | | 113 | 7,475. |
| 24 | Teakwood turned pigeon gi 13 ins by 2 ins deep — @ | " 3 " | 6 | |
| | Studs, hinges and scuffle ing 5 — | | 6 | |
| | | | | 133. |
| | Ea H. | | | |
| | Erecting openings to be made for windows and doors in the Godown | | | |
| 1650 | Cubic ft cutting down 2 new doors and windows converting them with doors very hard and tedious work | " 1/6 | | 155 |
| 3/ | Squares Flooring with new 2 line Inverted granite stones in chunam to the sills and the spaces of the cross walls — 7 Sqrs | 25 3 " | | 88. |
| | Cooly hire for removing re breaking partition and fixing a light railing united with masonry | — | | 10 |
| | Cooly hire for cutting the wall and fixing 16 ends of the iron bars with masonry | " 1/ " | | 12. |
| | Carried Over | — | 265 | 7,608 |

| Quantities | Description of Work. | Rate | Amount | Amount for each sort |
|---|---|---|---|---|
| | Brought over | | 904 | 7608. |
| 1 | Square Red paint coat to the door and frame &c | @ 15 @ | 1 | |
| 1/2 | Square Black paint 2 coats to the iron bars of the windows — Three | 1 10 @ | 2 | |
| | Sundry charges and sets following &c | | 57 | |
| | | | | 960. |
| | No 5. | | | |
| | Removing the partition walls throughout the whole of the Barack in the upper and lower Stories Cutting down the windows of the lower floor and the inner face of the building and substituting half doors instead of windows also cutting down the windows and the back side facing the Treasury &c and substituting double doors dividing in the middle. | | | |
| | Carried over | | | 8568 |

27

| Quantities | Description of Work. | Rate | Amount | Amount for each sort |
|---|---|---|---|---|
| | Brought over | | | 8,568. |
| | Removing 26 partition walls throughout the whole of the Barracks in the upper and lower Stories | 22 8 @ | 585. | |
| | Turning 6 arches over the partition walls very carefully so as to introduce the arch bit by bit including centering and props to support the Roof during the operation | 37 8 @ | 225 | |
| | Cutting down 28 windows in the lower floor on the inner face of the barracks and substituting half doors like on the south side | 42 @ @ | 176. | |
| | Widening and cutting the sides of 14 doors on the inner side of the barracks on the ground floor and substituting half doors the same as the windows | 27 @ @ | 378. | |
| | Carried over | | 2364 | 8568. |

| Quantities | Description of Works | Rate | Amount | Amount for each item |
|---|---|---|---|---|
| | Brought Over | | 2,364. | 0,568 |
| | Removing 32 windows of the eastern side of the lower Range facing the Treasury Court and old Cadets Quarters and re-substituting full double glazed sliding sashes in the middle tier on the west side granite floor and hanging the sides &c. | 8 " " | 256. | |
| 32 | Pair double bath windows dividing shutter with frames hung hinges bolts rebated hooks and iron grating &c. complete the same as on the most side | 10 " " | 2240. | |
| 32 | Squares Wood painted one coat to the doors frames &c. | " 15 " | 30. | |
| | Removing 82 old wooden water trunks and repairing the same with new teatharced and iron clamps where required painting the finished rebate throughout | 6 " " | 192. | |
| | Carried over | | 5302 | 0,568 |



| Quantities | Description of Works | Rate | Amount | Amount for each item |
|---|---|---|---|---|
| | Brought Over | | 5,302 | 0,568. |
| 7920 | Sup. ft. Removing old covered drain and re-forming same on the surface throughout the Quadrangle of the Barracks with half new and half old granite stone in chunam as recommended by the Medical Committee | 18 " " | 1426. | |
| | Baling water where required and making temporary channels | | 200. | |
| | Sundry changes and repairs &c. | | 352 | |
| | | | | 7,360. |
| | No. 6. | | | |
| | Constructing two Lavatories and cutting down the windows of the South west bomb proof into doorways | | | |
| 1264 | Cubic ft. Cutting down removing & disposing of the old materials | 1/6 | 119. | |
| | Carried over | | 119 | 15,928 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over. | | 119. | 15928. |
| 4/12 | Squares Paving with new granite stone 2 Ins dressed in Chunam to the doorway &c. 7/Sqr. | 25 3 | 113. | |
| 9/12 | Do - Removing the old granite stone floor of the South west wash house and reflooring the same with old granite stone in Chunam and a levelling course wall Brick Work underneath to forming a slope for discharging the water into the drain 7/Sqr. | 10 " | 95. | |
| 5 | Do Removing the old granite stone floor including the levelling course and 2½ | | | |
| | Carried Over | | 327 | 15928 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over. | | 327 | 15928. |
| | ½ feet depth mud and lowering the Sewer pipes and reflooring the same with old granite stone in Chunam and a levelling course of old brick Work underneath — 7/Sqr. | 10 " | 50. | |
| 175/12 | Cubic feet Brick work in Chunam Mortar | " 2 " | 22. | |
| 26/12 | Sqrs. Plastering with 2 coats Chunam to the walls 7/Sqr. | 1 13 | 50 | |
| 2/12 | Squared Plastering with 2 coats blue Chunam to the walls 7/Sqr. | 2 " 3 | 5 | |
| | Coolly hire for cutting the wall and removing 155 | | | |
| | Carried Over | | 454 | 15928 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over. | | 590 | 15928 |
| | Cooly hire for cutting and removing 2 old masonry foundations in the Court yard for laying leaden pipes | " | 5 | |
| | Cooly hire for cutting and removing the old granite stone steps including the bed and rebuilding the same with masonry and laying the old granite stones in chunam over the steps for laying down the leaden pipes | " | 3 | |
| | Cooly hire for cutting the side wall of the verandah drains and fitting the leaden pipes with masonry | " | 3 | |
| | Cooly hire for cutting the wall and fitting 17 new doors with masonry in the South West Damp proof | 1 8 | 25 | |
| | Carpenters Cooly hire for removing old shelves and turned pegs, and repetting the same in another place with new rafflers nails and general repairs where required for West Range | " | 25 | |
| | Carried over | | 651 | 15928 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over. | | 1551 | 15928 |
| 155 | old Shinge stones of the 17 doors and 25 pinnadoors and filling the holes with cunnamasonry @ | " 8 " | 77 | |
| | Stone Cutters cooly hire for cutting 42 Key stones between the arches of the 17 doors and 25 pinnadoors converted into 42 doors keyways very hard | " 6 " | 26. | |
| | Cooly hire for cutting and removing 64 old brackets of the shelves and cunnamasonry & fixing the holes with masonry and plastering the same @ | " 2 " | 0 | |
| | Cooly hire for cutting the wall and fixing 98 new teak brackets with masonry & plastering the same for Mason Plinth & Cunnamasonry | " 4 " | 35 | |
| | Carried over | | 590 | 15928 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| 1 | Brought over | | 6.51 | 15-928 |
| | Cooly hire for Constructing a small Cistern with Masonry for fixing the Cross Cocks | " " " | 2 | |
| | Carpenters cooly hire for cutting and removing the old 8 Arm racks and refitting the same in another place with screw Nails over the brackets | | 2 | |
| | Carpenters cooly hire for unfixing and removing 25 old batten windows and 17 Venetian blinds and conveying them to the Carpenters work yards | " 8 | 21 | |
| | Cooly hire for repairing and laying old Wooden pipe of 27 feet long by 2½ ins diameter under the floor leading to the Wash House | " " | 7 | |
| 23.000 | Sqft Whitewashing in chunam with 2 Coats where required Sqft | " 2 6 | 36 | |
| | Carried Over | | 719 | 15928 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over | | 719 | 15928. |
| 1600 | Sqft Blue washing in chunam with 2 coats where required | ½ 3 2 | 3 | |
| 600 | Do Repairing the plaster with 2 coats Chunam Do | 1 4 9 | 12 | |
| 250 | Do Repairing the plaster with 2 coats Blue Do Do | 2 6 3 | 5 | |
| 7,000 | Sqft Pointing in Chunam to the Granite floor | " 9 4 | 41 | |
| 6½ | Cubft Teak wood wrought and put up | 2 4 " | 15 | |
| | 16 Pairs Strong batten door dividing shutters with frames rovetted hooks hinges bolts and screw Nails and circular iron grating Do Complete | 72 23 6 | 1163 | |
| | 1 Pair Do Do Complete | " " " | 63 | |
| | 1 Single Teakwood common door shutters with frames hooks hinges pin and chain Do Complete for Brass Stop cock in the Court Yard | " " " | 2 | |
| 73 | Running feet Making 10 Teakwood basin planks with holes of different sizes and fitting the same with screw Nails over the brackets | " 12 " | 55 | |
| | Carried over | | 2,080 | 15,928. |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 2080 | 15928. |
| 14 | Running feet Making 4 teakwood planks of 1 ins by 4½ ins and fitting 1 with screw nails over the Cuchawood posts in the Wash house | " 3 | 3 | |
| | 4 Cuchawood posts each for fitting the brass Cocks in the Wash house | 4 8 | 18 | |
| | 5 Perforated sheet iron traps for Mouths of Drains 6 by 4 ins each in the Wash house and fitting same Carefully | " 8 | 2 | |
| | 1 Brass large stop Cock of 2½ ins diameter Complete | " " | 42 | |
| | 4 Brass small Cocks of ⅝ ins diameter Complete | 5 8 | 22 | |
| 12 | Running feet 1 Leaden branch pipe by 2⅛ ins diameter Each | 36 " | 36 | |
| 90 | Running feet 8 Leaden pipe of 12 ft long Each by 2½ ins Diameter | 36 " | 288 | |
| 48 | Running feet 4 Leaden pipe of 12 feet each long by 2½ ins Diameter | 2 14 | 138. | |
| 24 | Running feet 4 Leaden air pipe of 6 ft Each long by ½ ins | 1 8 | 36 | |
| | 3 Tin Basins of 1 foot diameter including paint Work &c | 1 5 | 48 | |
| | Carried over | | 2715 | 15928. |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over | | 2715 | 15928. |
| 1500 | Sup ft Red paint 1 Coat to the new doors and Windows &c | " 15 | 14 | |
| 100 | Do - Black paint 1 Coat mixed with Wood oil to the iron bars &c | " 11 | 1 | |
| | Sundry Charges and scaffolding &c | " " | 136 | 2866 |
| | North west wash house in the Verandah: | | | |
| 122 | Sup ft Cutting and removing old Masonry hard and tedious work | " 1 | 8 | |
| 120 13/16 | Cub ft Brick Work in Chunam | " 2 | 15 | |
| 14 | Sup ft Brick on Edge in Chunam to the side Walls of the Drain | " 5 6 | 1 | |
| 135 | Do Plastering with 2 Coats Chunam to the Walls &c | 1 13 9 | 3 | |
| 27 | Do Plastering with 2 Coats Cement Chunam to the drains | 1 13 9 | 1 | |
| 675 | & Removing the old granite floor and levelling Course of the North West wash house & reflooring the same with old granite stone in Chunam and a levelling course of 3d sort walls | | | |
| | Carried Over | | 20 | 18794 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 28 | 18794. |
| | Wall brackets underneath to form a slope for discharging the Water into the drain | 10 " " | 68 | |
| 2800 | Sqrs. Whitewashing in Channel with 2 Coats where required | " 2 6 | 4 | |
| | Cooly hire for Cutting the Wall and fixing 21 New Brackets with Masonry and plastering the same | 4 | 5 | |
| | Cooly hire for Cutting and removing the old Granite Stone platform and cross Wall in the North out side and laying the Leaden pipes and reflooring the same with old granite Stone in Channel and levelling Course of old brackets underneath and rebuilding cross wall with Masonry & plastering the same | " " " | 7 | |
| | Cooly hire for cutting and making 6 holes in the basement including the plaster for discharging the Water into the drain | | 6 | |
| | Carried over | | 116 | 8794 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 116 | 18794. |
| | Cooly hire for cutting the granite floor and fixing a post & Rails with Masonry | " " " | 2 | |
| | Cooly hire for cutting and removing earth under the granite floor for laying the Leaden pipe and cutting hole thro' wall | " " " | 3 | |
| | Cooly hire for constructing a small Oven with masonry for fixing the brass cocks | " " | 3 | |
| | Excavating the earth and laying the Leaden pipes refilling the earth and raleying the road with old and new gravel and jelly &c | " " | 5 | |
| 3¼ | Cubic Feet Teakwood wrought and put up | 2 4 | 7 | |
| 12 | Rft. Making 2 teakwood screen planks of 3½ ft. by 1 ins to the Windows of the Wash room to prevent people looking in from the road | " 12 | 9 | |
| 54 | Rft. Making 1 teakwood basin plank of 1 by 16 ins for fitting the same with screw nails over the brackets | " 12 | 40 | |
| | Carried over | | 185 | 18794 |

| Quantities | Descriptions of Works | Rate | | Amount | Amount for each part |
|---|---|---|---|---|---|
| | Brought over | | | 185. | 1879½ |
| 17½ | Qty Making 5 teakwood planks of 1 ins by 1½ ins for fitting the same with screw nails over the Anchawood posts in the Wash house | | 3 | 3 | |
| | 5 Anchawood posts each for fitting the brass Cocks in the Wash house Each | 4 | 8 | 22 | |
| | 1 Cut granite Stone of 15 ins square by 5 ins thick with iron rings for covering over the Brass stop cocks | " | " | 2 | |
| | 2 Granite Stone of 2 line dressed for fitting the covered granite Stone of the Brass cock | " | " | 5 | |
| | 1 Brass large cock of 2½ ins diameter Complete Each | 12 | " | 12 | |
| | 5 Brass Cocks of ¾ ins diameter Complete Each | 5 | 8 | 27 | |
| 220 | Rft Leaden pipe of 12 feet long by 2¾ ins diameter | 3 | " | 660 | |
| 30 | Qs 5 Leaden air pipe of 6 feet each long by ⅞ ins diameter | 1 | 8 | 45 | |
| | 29 Tin Basins of 1 foot diameter including paint Each | 1 | 5 | 38 | |
| | Sundry charges & scaffolding &c | | | 51 | 1080 |
| | Carried over | | | | 1987½ |

| Quantities | Description of Work | Rate | | Amount | Amount for each part |
|---|---|---|---|---|---|
| | Brought Over | | | | 1987½ |
| | Altering the Store Rooms. | | | | |
| 3000 ft | White Washing in Chunam with 2 Coats were required | " | 2 | 6 | 5 |
| 1100 do | Blue Washing in Chunam with 2 Coats where required | | 3 | 2 | 2 |
| 500 ft | Repairing the plaster with 2 Coats Chunam where reqd | 1 | 14 | 9 | 10 |
| 300 ft | Repairing the plaster with 2 Coats blue Chunam where required | 2 | " | 3 | 7 |
| 175 ft | Repairing the plaster with 2 Coats Cement Chunam to the floor where required | 1 | 13 | 9 | 3 |
| 225 ft | Repairing the floor with brick Jelly in Chunam and well rubbed over | 2 | 13 | 9 | 6 |
| 140 ft | Repairing the floor with new 8 ins Sqr bricks in Chunam where required | 5 | 2 | " | 7 |
| 650 ft | Pointing in Chunam to the Common floor | " | 5 | 7 | 2 |
| | Cooly hire for cutting and removing one old windows & refixing an old door with masonry and plastering the same | | | | 2 |
| | Carried Over | | | 14 | 1987½ |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 44 | 198 7½. |
| | Cooly hire for making holes in the arcade wall and fixing the 6 new rails with Masonry & plastering the same | | 6 | |
| | Cooly hire for Cutting & removing 2 old Windowsills under the Stair Case and refixing 2 old small doors with Masonry & plastering the same | | 3 | |
| | Cooly hire for Cutting the walls and fixing 36 new turned pegs with brick Jelly in Chunam | | 2. | |
| | Carpenter's & Smiths Cooly hire for reducing one old batten door & repairing with new Teakwood; also repairing the hooks hinges & iron bars &c with new iron & refitting the same with new Nails &c— | | 5 | |
| | Carpenters cooly hire for making 2 small doors with old teak wood hooks hinges & bolts &c Each | 3 | 6 | |
| | 1 Teakwood Common Rail with middle & bottom frames & Complete | | 11 | |
| | Carried Over | | | 198 7½. |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 77 | 190 7½. |
| | 1 Teakwood Common rail with top middle and bottom frames &c Complete | | 9 | |
| | 2 Teakwood Common rails with middle and bottom frames &c Complete Each | 10 4. | 22. | |
| | 2 Do Do Complete | 7 3 6 | 14 | |
| | 36 Teakwood turned pegs of 15 inches by 2 in Diameter Each | 3 6 | 8 | |
| | Repairing the 8 old doors, 4 Windows bolts & locks &c with new teakwood & nails & fitting the iron sheet with Screw nails over the door frames in the store room for Bandicoots Each | 1 | 12. | |
| 900 | Sq ft Red paint 1 Coat to the new rails Doors & windows | 15. | 8 | |
| | Sundry Charges and Scaffolding &c | | 8 | 158. |
| | No 7 Slight alterations to the Field Officers Quarters No 4 Lower Story. | | | |
| 6425 | Sq ft Whitewashing in Chunam with 2 Coats where Required | 2 6 | 10 | |
| | Carried Over | | 10 | 20032 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 10 | 20032. |
| 400 | Sq^r Yellowwashing in Chunam with 2 Coats where required | 3 1 | 1 | |
| 1300 | Do Repairing the plaster with 2 Coats Chunam where required | 1 1/4 9 | 25 | |
| 225 | Do Repairing the plaster with 2 Coats Yellow Chunam where Required | 2 " | 4 | |
| 425 | Do Repairing the plaster with 2 Coats Cement Chunam to the floor where required | 1 13 9 | 8 | |
| 35 | Do Repairing the floor with new 10 ins Sq^r bricks in Chunam where required | 5 14 | 2 | |
| 50 | Do Repairing the floor with new 8 ins Sq^r bricks in Chunam where required | 5 2 | 2 | |
| 325 | Do Repairing the floor with new 6 ins Sq^r bricks in Chunam where required | 4 7 4 | 14 | |
| 1450 | Do Pointing in Chunam to the Common floor | " 5 7 | 5 | |
| 28 | Sq^r Flat arch work in Chunam over the doors | " 2 9 1/2 | 5 | |
| 23 | Do Constructing a Masonry Sill with brick in Chunam for raising the door frames | 2 | 3 | |
| | Carried Over | | 79 | 20032. |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 79 | 20032. |
| | Cooly hire for cutting the wall and fixing the door frames with Masonry & plastering Same | | 3 | |
| | Cooly hire for repairing the 4 Jogongs & pyals with Masonry & plastering the same | | 2 | |
| | Cooly hire for cutting and removing the old Masonry dwarf walls and platform and rebuilding with Masonry and plastering the Same | | 4 | |
| | Cooly hire for constructing a small step with masonry and plastering the Same | | 1 | |
| | Carpenters Cooly hire for making a door frame with Teakwood & Shutters repairing the hooks and hinges & refixing the same with new nails | | 5 | |
| | 1 Iron round bolt of 1 foot long with Screw Nuts | | 1 | |
| | Carried Over | | 95 | 20032. |

| Quantities | Description of Work | Rate | Amount | Amount for Each part |
|---|---|---|---|---|
| | Brought Over | | 95 | 20032. |
| | Repairing the 5 doors & 4 windows bolts & locks with new Teakwood & nails and oiling the bolts and locks &c | " " | 9 | |
| 1100 | ſqr Red paint 1 Coat to the doors &c | " 15 | 13 | |
| 37 | Do Black paint 1 Coat to the Iron bar of the windows | " 11 9 | 1 | |
| | Sundry Charges and scaffolding &c | | 7 | 125 |
| | Upper Story to the Field Officers Quarter | | | |
| 6825 | ſqr Whitewashing in Chunam with 2 Coats where required | " 2 6 | 11 | |
| 475 | Do Yellow washing in Chunam with 2 Coats where required | " 3 1 | 1 | |
| 225 | Do Repairing the plaster with 2 Coats Chunam where required | " 1 14 9 | 4 | |
| 60 | Do Repairing the plaster with 2 Coats Cement Chunam to the floor where required | 1 13 9 | 1 | |
| 75 | Do Repairing the plaster with 2 Coats Chunam in Sqr to the floor where required | " " " | 2 | |
| | Carried Over | | 10 | 20157. |

| Quantities | Description of Work | Rate | Amount | Amount for Each part |
|---|---|---|---|---|
| | Brought Over | | 19 | 20157. |
| 25 | Sqr Repairing the plaster with 2 Coats Yellow Chunam in Sqr to the floor where required | 2 1 6 | 1 | |
| 225 | Do Repairing the plaster with 2 Coats white and blue Coloured Chunam in Sqr to the floor where required | 2 1 9 | 5 | |
| | Coolys hire for constructing a dwarf wall and filling over the door frame with Masonry and plastering the same | " " " | 6 | |
| | Coolys hire for constructing the flat arch work in Chunam over the doors and plastering the same | " " " | 1 | |
| | Coolys hire for taking and removing the old wooden Canvas screen and refixing the same in another place with masonry & plastering the same | " " " | 2 | |
| | Carried Over | | 34 | 20157. |

| Quantities | Description of Work | Rate | Amount | Amount for Each part |
|---|---|---|---|---|
| | Brought Over | | 34 | 20157 |
| | Cooly hire for cutting the wall and fixing the canvas screen with masonry & plastering the same | " " | 1 | |
| | Cooly hire for cutting and removing a old window and masonry sill & refixing a new door with masonry & plastering the same | " " | 2 | |
| | Cooly hire for cutting & removing 3 old blocks of the punkah wheels and refixing the same in another place with masonry and plastering the same | " " | 4 | |
| | Cooly hire for cutting the wall and fixing the wall shades blocks with masonry and plastering the same | " " | 1 | |
| | Cooly hire for repairing the old canvas screen with new teakwood and nails | " " | 3 | |
| | Carried Over | | 45 | 20157 |



| Quantities | Description of Work | Rate | Amount | Amount for Each part |
|---|---|---|---|---|
| | Brought Over | | 45 | 20157 |
| | Cooly hire for cutting and removing the old frame nailed door shutters and fitting up the additional thatti frames with new teakwood & nails for rising and fitting the old glazed shutters over the same | " " | 4 | |
| | Cooly hire for repairing the old punkahs with suspending & pulling ropes &c | " " | 6 | |
| | Cooly hire for cutting the wall and fixing 2 leaden pipes with masonry and plastering the same for Punkah pulling ropes | " " | 2 | |
| | Carpenters Cooly hire for taking & removing 24 old iron hooks of the door frames and fitting the holes with teakwood wedges & nails &c | " " | 3 | |
| | Carried Over | | 60 | 20157 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 60 | 20157. |
| | 91. Carpenters cooly hire for taking & removing 6 old Iron bars off the windows and fitting the holes with teakwood wedges and nails &c | | 1 | |
| 5¼ | Cubic Ft Teakwood Wrought and put up | 2 4 | 12 | |
| | 4 Pair Red Lurgo screen shutters with teakwood frames brass folding hinges screw nails & brass knobs &c Complete including the Varnish — Each | 21 | 84 | |
| | 1 Pair Do Do Complete | | 16 | |
| | 1 Single European canvass screen shutters with teakwood frames non folding hinges & screw nails and wooden Knobs &c Complete | | 9 | |
| | 1 Single Do Do Do Complete | | 7 | |
| 29½ | Rft Lining teakwood additional thick frames with screw nails to the Doors & Windows | | | |
| | frames for fitting up the canvass screen | 3 | 6 | |
| | Carried over | | 195 | 20157 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 195. | 20157. |
| 5½ | Rft Lining teakwood architrave planks of 6 ins by 1 ins fitting in the wall with rafter nails | 4 | 1 | |
| 14 | Do 1 Pair Punkahs with deal frames brown holland fringes bordered with europe canvass & tape 3 Pairs brass hammer headed hooks 3 brass pulling hooks cotton suspenders pulling ropes white Cloth Covering jungum Cloth inside paint 3 Coat with wood oil &c Complete | 2 4 | 31 | |
| 125 | Sft Lining the single European canvass screen with white tape & tap nails &c Complete for wooden screen | 14 | 17 | |
| 84 | Sft Repairing the old canvass screen with new Europe Canvass White tape and tap nail &c | 14 | 12 | |
| | 2 Teakwood wheels of 6 ins diameter each with iron holders and brackets &c Complete Each | 1 8 | 3 | |
| | Carried over | | 259 | 20157 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought Over | | 259 | 20157 |
| | 1 Brass Wheel of 6 ins Diameter with iron holder complete | | 7 | |
| | 1 Brass ring of 1½ ins Diameter each | 1 6 | 1 | |
| | 1 Iron round bolt of 1½ foot long with screw Nails | | 1 | |
| | 1 Iron round bolt of 1 foot long with screw Nails | | 1 | |
| | 1 Iron round bolt of 9 ins long with screw nails | | 1 | |
| | 5 Iron folding hinges of 6 ins long with screw nails Each | 8 | 2 | |
| | 2 Leaden pipes of 2¾ ft long by 1 ins Diameter for Punkah pulling rope | 2 12 | 5 | |
| | Repairing the 9 doors and 6 Windows with new teakwood & Nails and oiling the bolts and locks complete Each | 1 " | 15 | |
| 150 | 2 ft Milk White paint 2 coats to the Punkahs &c | 1 4 | 2 | |
| | Carried over | | | |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over | | 294 | 20157 |
| 450 | Sup. ft White paint 2 coats with a priming coat of wheat flour &c the canvas per sq ft &c | 3 3 | 14 | |
| 175 | Do White paint 3 coats to the new frames &c | 2 11 | 5 | |
| 475 | Do White paint 2 coats to the old canvas per sq ft &c | 2 " | 9 | |
| 100 | Do Green paint 3 coats with Do. prepared verdigrease to the new frames and venetians &c ——— 7 Sqrs. | " " | 5 | |
| 200 | Do Green paint 2 coats with Do. prepared verdigrease to the Tanned shutters &c Do | 3 10 | 7 | |
| 800 | Do Veg green paint 2 coats to the doors & Windows &c | 1 12 | 14 | |
| | Carried over | | 340 | 20157 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over | | 348 | 20157 |
| 812 | Sup Sft Red paint 2 coats to the prin: doors &c — 9d | 1 9 | 12. | |
| 25 | Do Red paint 3 coats to the new venetians &c Do | 2 . 6 | 1 | |
| 150 | Do Black paint 1 coat with wood oil to the bottom of the walls | 1 9 | 1 | |
| | Sunday changes and Scaffolding &c | | 18 | |
| | | | | 380. |
| | No 8. Converting part of the old Cook rooms into a Coffee Room of the Soldiers | | | |
| 1140 Sft | Cutting and removing the old Masonry | 1 | 71 | |
| | Cooly hire for cutting the wall & opening 2 arches in the gable end & plastering the side | 40 | 15 | |
| 320 | Do Brick work in chimneys for filling the arches and building 2 Crop walls | 2 | 40 | |
| | Carried over | | 126 | 20537 |

| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over | | 126. | 20537 |
| | Cutting the wall & making circular arch in Chimney in the Blank wall for opening 2 arches including centering | " " " | 15 | |
| | Cooly hire for filling the holes with brick Jelly in chimneys of the 8 Chimnies | 1 " | 8 | |
| 250 Sft | Flooring with 2 line dressed granite stone in the room & levelling course old bricks under neath | 25 3 . | 64 | |
| | Cooly hire for cutting the wall & fixing 26 brackets for tables and shelves with masonry and plastering Complete | " 4 | 7 | |
| | Cooly hire for cutting and fixing 2 new wooden lintels with masonry between the arches | 1 8 . | 3 | |
| | Stone Cutters cooly hire for making 16 holes in the granite floor & fixing the legs of the Tables | " 12 . | 12 | |
| | Cooly hire for cutting the wall and fixing a old door with masonry & plastering | " " | 2 | |
| | Carpenters cooly hire for reducing & altering a old door with old Teakwood and repairing iron hooks hinges & bolts with new iron &c | | 5 | |
| | Carried over | | 242 | 20537 |

| Quantities | Description of Work | Rate | | | Amount | Amount for each part |
|---|---|---|---|---|---|---|
| | Brought over | | | | 242 | 20537 |
| | Cooly for constructing 16 | | | | | |
| | fogongs and pyals with masonry | | | | | |
| | and plastering Completed | 1 | 8 | | 24 | |
| 4700 | Sqrs. Renewing the plastier | | | | | |
| | with 2 Coats Cheenam to the | | | | | |
| | walls throughout | 1 | 14 | 9 | 90 | |
| 1100 | do do with 2 coats chinam | | | | | |
| | to the Ceilings | 2 | 6 | | 26 | |
| 700 | do do with 2 coats Blue | | | | | |
| | Chinam to the walls | 2 | " | 3 | 14 | |
| | 1 Cut granite stone of | | | | | |
| | 3 lines dressed with iron ring | | | | | |
| | for conveying to the mouth | | | | | |
| | of drain | " | " | " | 2. | |
| 31 | Cft. Teakwood wrought & put up | 2 | 4 | | 70 | |
| 63 | Cft. making Shelf | | | | | |
| | planks of 1/2 by broad 1 inch | | | | | |
| | thick and fitting with | | | | | |
| | Screw nails over the | | | | | |
| | brackets | | 12 | | 49 | |
| 104 | do Teakwood Common | | | | | |
| | bench of 1 1/4 feet broad | | | | | |
| | by 1 3/4 feet height with | | | | | |
| | posts & frames & Complete | 1 | " | " | 104 | |
| | Carried Over | | | | 621 | 20537 |

| Quantities | Description of Work | Rate | | | Amount | Amount for each part |
|---|---|---|---|---|---|---|
| | Brought Over | | | | 621 | 20,537 |
| | 2 Teakwood Common rails | | | | | |
| | with top bottom and Centre | | | | | |
| | frames | 12 | 12 | 9 | 26 | |
| 2 | Sqrs. Red paint 1 Coat | | | | | |
| | to the rails and doors | " | 15 | | 3 | |
| | Sundry Charges and | | | | | |
| | Scaffolding &c | | | | 32 | 682 |
| | No. 9. | | | | | |
| | Erecting 300 Ventilators in | | | | | |
| | the Lower & upper Stories | | | | | |
| | of the Barracks | | | | | |
| 1 | Pot Ventilators | | | | | |
| | of 1 foot diameter | | | | 3 | |
| | Cutting the roof | | | | | |
| | and fixing the same | | | | | |
| | with Masonry | | | | 1 | |
| | Sundry Charges & | | | | | |
| | Scaffolding &c | | | | 3/4 | |
| | Total for 1 Ventilator | | | | 4 3/4 | |
| | Total for 299 do | | | | 1420 1/2 | |
| | Total for 300 do | | | | | 1425 |
| | No. 10 | | | | | |
| | Pulling down and re- | | | | | |
| | moving the old building | | | | | |
| | known as Cadets Quarters | | | | 400 | |
| | Carried over | | | | | 400 |
| | | | | | | 23046. |

| Quantities | Description of Work | Rate | Amount | Amount for Each part |
|---|---|---|---|---|
| | Brought over | | | 230/44 |
| | No 11. | | | |
| | Erecting 6 water spouts in different parts of the Barracks for the Soldiers to drink from & cooly line for removing and replacing the granite stones in chamber for digging the trench for the pipes | | | |
| 30 | R ft. Leaden pipes of 3/4 ins diam and fixing same to Main pipe and spout. ₰ ft | 1 " " | 30 | |
| 1 | Brass cock of 3/4 ins diam fixing same to spouts and leaden pipe complete | | 10 | |
| 1 | Auchanwood post to fasten the pipe | " 12 " | 4 | |
| 1/2 | Cubft. Teakwood wrought & put up | 2 " | 1. | |
| | Sundry charges &c. | | 2 | |
| | Total for 1 Spout | | 55 | |
| | D: 5 D: | | 275 | |
| | Grand Total for 6 Spouts | | | 330. |
| | No 12. | | | |
| | Road Pump near Canteen | | | |
| 250 | Cubft. Cutting and removing the masonry | " 1 " | 16 | |
| | Carried over | | 16 | 23374. |



| Quantities | Description of Work | Rate | Amount | Amount for each part |
|---|---|---|---|---|
| | Brought over | | 16 | 22,374. |
| | Stone 2 line dressed of 6 inches thick | | | |
| | Round well ₰ ft: | 25 3 " | 80 | |
| 30 | Running feet Laying cut stone in Armand round well | | | |
| | round grand well & main drain ₰ ft | 1 " " | 30. | |
| | Constructing a trough with stone in Armand to place under the pump | " " " | 60 | |
| | Cost of pump and fixing same | | 250. | |
| 38½ | Cubft. Teakwood wrought and put up ₰ cft | 2 " | 87. | |
| | Sundry charges and scaffolding &c | | 27 | |
| | | | | 550 |
| | Carried | | | 23924. |
| | Deduct | | | |
| | Amount sanctioned for Carried over | | | 23924. |

| Quantities | Description of Work | Rate | Amount | Amount for each page |
|---|---|---|---|---|
| | Brought over | | | 23924 |
| | for opening barge arches on the north and south piles of the Barracks Vide Chief Engineers Proceedings No 2376 4th July 1859 | | 4200 | |
| | Value of abandoned Piles to be used when possible | | 1794 | |
| | | | | 5994 |
| | Total Amount | | | 17930 |

J.W. Todd Lieut. Colonel
Chief Engineer D.P.H.

Central Office P.P.H.
Fort St. George
21 November 1859

Enclosure

In a letter M.D.
Dated 5th Sept 1859
From

The Chief Engineer
D.P.W.

To

The Secretary to
Government
P. D. P. W.

DO 3295/59
Dated 22 Nov/59
Received 1 Dec/59

No. 7485

Abstract Estimate of the expense of certain alterations and improvements to the interior of the Royal Barracks Fort St. George to improve the ventilation and to afford better accommodation for the Soldiers at Madras Amounting to Rupees 17930-

MILITARY DEPARTMENT.

*PROCEEDINGS OF THE MADRAS GOVERNMENT.*

Read the following letter :—

*From the Chief Engineer, Fort Saint George, 21st November* 1859, *No.* 7485 ; *to the Secretary to Government Public Works Department.*

*Enclosures* 20.
1 *Letter from the Garrison Engineer dated 28th October* 1859, *No.* 567.
1 *Abstract Estimate Rs.* 17,930 *with* 11 *letters.*
1 *Do.* „ 6,500 *with* 2 *do.*
1 *Do.* „ 2,530 *with* 1 *do.*
1 *Detailed data.*
1 *Plan.*

I have the honor to forward herewith the following Estimates received from the Acting Garrison Engineer.

1. For certain alterations and improvements to the interior of the Royal Barracks, Fort Saint George, to improve the ventilation and to afford better accommodation to the Soldiers— Rupees... 17,930.

2. For raising the roof of the Verandah of the Canteen of the Barracks, and adding a new portion to the South side.... ... ... Rupees... 2,530.

3. For making openings in the east and south sides of the Parcherry Barracks, Fort Saint George, to let the Sea breeze into the square more freely ; also for better ventilating the married men's Quarters, and for erecting " Duff's Cooking Ranges" in the Cook rooms, ... .. ... Rupees... 6,500.

Total Rupees... 26,960.

2. The details of the above works are explained at length in Captain Rawlins' Memo. forwarded with my letter of the 15th September 1859, No. 5049. The greater number of the works are under execution, and will probably be completed in about 6 months. The specific orders under which they have been commenced, accompany the Estimates herewith submitted, which have been examined and found to be moderate but sufficient.

3. I beg that the works in question may be sanctioned for immediate execution out of the funds placed at the Garrison Engineer's disposal for the current official year.

ORDER, No. 4408, *13th December* 1859.

Sanctioned for immediate execution as proposed in para. 3 ; the alterations being urgently required on sanitary grounds.

(True Extract.)

*Acting Dy. Secretary to Government.*

To the Department Public Works, with 10 enclosures. & 20 spare Copies.
„ Town Major.

Exd. J. Davis.

Proc. Govt. 4th Oct. 59. No. 7485

P.W. 1859 Decr. 13th
Proc. Govt. 31st Decr.
No. 3295.

Proceedings of the Madras Govt. in the Military Department.

Dated 13th
Received 19th } Decr. 59.

No. 2975.

Ordered to be communicated to the Chief Engineer with reference to his letter dated 21st November 1859 No. 7485.

A. C. G.

No. 33 to 34.

No. 4408.

To Fort St. George
22nd Decr. 59

To Copies to the Chief Engr. Dept. 22nd
with Rr. No. 4408.

£-10--
+9 Cs. sent to the Chief Engr. Office 16-1-60.

Sanctioning the execution of the works connected with the Barracks Fort St. George, out of the funds placed at the Garrison Engrs. disposal for the current year.

No. 2975. 22nd December
William Peter