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| Project: | | CONSTRUCTION OF OF DZONGKHAG EMERGENCY OPERATION CENTRE (DEOC) | | | | |
| Client: | | DEPARTMENT OF DISASTER MANAGEMENT, MoHCA | | | | |
| Type of Building: | | OFFICE BUILDING | | | | |
| Location: | | RABTEN LAM 1, THIMPHU | | | | |
| Date: | | Jun-20 | | | | |
| Sl.No. | BSR /2018 | Description | Qty. | Unit | Rate in Nu. | Amount in Nu. |
| A. Clearing & Grubbing | | | | | | |
| 1 | CG0002 | clearing jungle including uprooting of vegetation & trees of girth <300mm & disposal within 50m of the site. | 330.00 | Sq.M | 9.10 | 3,003.00 |
| B. Earth work | | | | | | |
| 2 | EW0031 | Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.M on plan, including, filling, levelling, disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed- ordinary soil | 106.09 | Cu.M | 116.87 | 12,398.74 |
| 3 | SM0072 | Providing and laying dry hand packed stone soling/course aggregate filling with hard stone(Footing) | 5.60 | Cu.M | 1539.14 | 8,619.18 |
| 4 | RC0001 | Providing & laying in position plain cement concrete 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - all work upto plinth level | 7.80 | Cu.M | 4333.18 | 33,786.89 |
| 5 | RC0002 | Providing & laying in position reinforcement concrete cement 1:1.5:2 (1 cement : 1.5 sand : 2 graded crushed rock 20 mm nominal size) in Walls (any thickness) upto floor five level excl. the cost of centering, shuttering and reinforcement. | 13.172 | Cu.M | 5701.37 | 75,098.45 |
| 6 | RC0090 | Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.(Footing) | 32.16 | Sq.M. | 276.95 | 8,906.71 |
| 7 | RC0090 | Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.(PCC) | 30.00 | Sq.M. | 276.95 | 8,308.50 |
| 8 | RC0083 | Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete | 645.80 | Kg | 73.02 | 47,156.64 |
| 9 | EW0195 | Filling of trenches, sides of foundations, areas to be raised etc. including compaction in layers < 200mm using selected excavated earth within lead 50m & lift 1.5m. | 34.85 | Cu.M | 80.29 | 2,798.27 |
| 10 | RC0002 | Providing & laying in position reinforcement concrete cement 1:1.5:2 (1 cement : 1.5 sand : 2 graded crushed rock 20 mm nominal size) in Walls (any thickness) upto floor five level excl. the cost of centering, shuttering and reinforcement. Column | 5.562 | Cu.M | 5701.37 | 31,711.02 |
| 11 | RC0083 | Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete. (Column) | 652.43 | Kg | 73.02 | 47,640.16 |
| 12 | RC0082 | Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete. Column Stirrups | 204.42 | Kg | 72.02 | 14,722.50 |
| 13 | RC0083 | Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete. Stirrups | 585.14 | Kg | 73.02 | 42,726.95 |
| 14 | RC0083 | Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete. Beam main bars | 1,969.53 | Kg | 73.02 | 143,815.18 |
| C. Stone Work | | | | | | |
| 15 | SM0005 | Random Rubble Masonry with hard stone in CM 1:4 in foundation and plinth | 35.00 | Cu.M | 3764.06 | 131,742.10 |
| 16 | SM0072 | Providing and laying dry hand packed stone soling/course aggregate filling with hard stone floor lvl | 22.00 | Cu.M | 1200 | 26,400.00 |
| Subtotal for Stonework | | | | | | |
| D. Plain cement concrete work | | | | | | |
| 17 | CW0006 | Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:3:6(1 cement : 3 sand : 6 graded crushed rock 40mm nominal size) | 15.48 | Cu.M | 4235.49 | 65,552.68 |
| 18 | MR | water proofing compound in toilet slab and mix as per manufacture specification - JK brand or equivalent | 103.79 | Kg | 75.00 | 7,784.25 |
| 19 | RC0017 | Providing & laying in position RCC work 1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size) in beam, lintels & staircase upto floor five level excl. the cost of centering, shuttering and reinforcement. | 240.65 | Cu.M | 7551.29 | 1,817,195.28 |
| E. Form work | | | | | | |
| 20 | RC0090 | Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc. | 32.16 | Sq.M. | 276.95 | 8,906.71 |
| 21 | RC0092 | Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - beams | 195.06 | Sq.M. | 379.62 | 74,048.68 |
| 22 | RC0093 | Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - columns above plinth | 87.84 | Sq.M. | 489.47 | 42,995.04 |
| F. Subtotal for Formwork | | | | | | |
| - | | | | | | |
| 23 | BW0002+BW0012 | Providing and laying second- class brick work In cement mortar 1:4 - 250mm in super structure | 31.02 | Cu.M | 8686.01 | 269,440.03 |
| 24 | | Providing and fixing White Suspended Ceiling Grid System | 54.50 | sqm | 555.55 | 30,277.48 |

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| 25 | WW0081 | Providing and fixing to frames Gypsum plaster board ceiling, 12mm thick (595 x 595 including finishing of joints smooth complete (excluding cost of frame) | 54.50 | sqm | 555.55 | 30,277.48 |
| 26 | SW0003 | Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint: Channels | 195.00 | Kg | 119.57 | 23,316.15 |
| 27 | BW0021 | Providing & laying Second-Class Half-brick Masonry (150 mm) in superstructure below floor 2 level in cement mortar 1:4 | 31.43 | Sq.M | 1117.04 | 35,108.57 |
| F. Roofing: | | | | | | |
| 28 | RF003 | P&F trapezoidal Pre painted Galvanised Iron (PPGI) iron sheets including bolts, hooks and nuts 8mm dia with bitumen and GI limpet washers filled with white lead for connection, excluding the cost of purlins, rafter and trusses - 0.5mm /24 gauge | 274.00 | Sq.M | 978.96 | 268,235.04 |
| 29 | RF007 | Providing & fixing 600mm ridges or hips in Pre Painted Steel sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection. | 38.07 | Mtr. | 841.96 | 32,053.42 |
| 30 | SW0022 | Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red | 1748.00 | Kg | 78.15 | 136,606.20 |
| G. Wood works | | | | | | |
| 31 | WW0030 | Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws - mix conifer | 62.30 | Mtr. | 128.87 | 8,028.60 |
| 32 | WW0003 | Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed-Mixed Conifer | 0.21 | cum | 21000 | 4,410.00 |
| 33 | WW0211 | Providing & fixing 35mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges-Mixed Conifer | 19.00 | sqm | 1397 | 26,543.00 |
| 34 | WW0035 | Providing, making & fixing woodwork dressed in traditional cornices complete as per standard design in Mixed Conifer, including applying wood preservative on unexposed surfaces, excluding decorative painting (Measurement to be taken along the cornice and wall junction line) Lintel level | 24.50 | m | 1610.64 | 39,460.68 |
| G. Flooring works Temperate | | | | | | |
| 35 | EW0197 | Providing & laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing | 37.22 | CUM | 181.40 | 6,751.71 |
| 36 | SM0072 | Providing & laying Hand packed stone filling or soling with stones | 8.63 | CUM | 1539.14 | 13,282.78 |
| 37 | WW0021 | Providing & fixing flooring joists, including hoisting, applying wood preservative on unexposed surfaces - Mixed Conifer, 50X75mm. | 1.70 | CUM | 17096.37 | 29,063.83 |
| 38 | FL0205 | Providing & fixing Mixed Conifer Flooring including fixing with iron screws etc. complete, excluding the cost of frame - 45mm thick, half-lapped | 93.86 | Sq.M | 748.86 | 70,288.00 |
| 39 | WW0151 | Providing & fixing wooden skirting in mixed conifer with necessary nails or screws complete - 25 mm | 13.54 | Sq.M | 1403.04 | 18,997.16 |
| 40 | FL0152 | Providing & laying marble stone flooring over 20mm thick base of cement mortar 1:4, jointed with grey cement slurry mixed with pigment where necessary, rubbing & polishing complete-20mm thick black and white marble | 45.30 | Sq.M | 3405.70 | 154,278.21 |
| 41 | FL0176 | Providing and laying Pre-Polished/ Polished Granite of approved quality and source in flooring using necessary cement bedding in C.M. 1:4 upto 20 mm thick average cement slurry for fixing the tiles with required slopes, curing, cleaning, filling the joints with pigments of similar colour and at all levels with all leads and lifts etc. complete as per directions of site in-charge and as per pattern required | 2.06 | Sq.M | 2722.88 | 5,609.13 |
| 42 | GL0009 | Providing & fixing coloured glazed tiles of 300 x 300 mm in flooring, treads of steps and landings laid on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement: | 79.24 | Sq.M | 1158.65 | 91,811.43 |
| G. Flooring works Tropical | | | | | | |
| 43 | EW0197 | Providing & laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing | 37.22 | CUM | 181.40 | 6,751.71 |
| 44 | SM0072 | Providing & laying Hand packed stone filling or soling with stones | 8.63 | CUM | 1539.14 | 13,282.78 |
| 45 | GL0009 | Providing & fixing coloured glazed tiles of 300 x 300 mm in flooring, treads of steps and landings laid on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement: | 93.86 | Sq.M | 1158.00 | 108,689.88 |
| 46 | MR | Providing & fixing tiles skirting | 13.54 | Sq.M | 639.00 | 8,652.06 |
| 47 | FL0152 | Providing & laying marble stone flooring over 20mm thick base of cement mortar 1:4, jointed with grey cement slurry mixed with pigment where necessary, rubbing & polishing complete-20mm thick black and white marble | 45.30 | Sq.M | 3405.70 | 154,278.21 |
| 48 | FL0176 | Providing and laying Pre-Polished/ Polished Granite of approved quality and source in flooring using necessary cement bedding in C.M. 1:4 upto 20 mm thick average cement slurry for fixing the tiles with required slopes, curing, cleaning, filling the joints with pigments of similar colour and at all levels with all leads and lifts etc. complete as per directions of site in-charge and as per pattern required | 2.06 | Sq.M | 2722.88 | 5,609.13 |
| 49 | GL0009 | Providing & fixing coloured glazed tiles of 300 x 300 mm in flooring, treads of steps and landings laid on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement: | 79.24 | Sq.M | 1158.65 | 91,811.43 |
| G. Finishing | | | | | | |
| 50 | PL0041 | Providing and laying cement plaster , 20 mm thick 1:4 . (Outside wall and Inside) | 470.30 | Sq.M | 147.26 | 69,256.38 |
| 51 | PT0010 | Providing & applying one coat of primers - Cement primer | 86.64 | Sq.M | 31.69 | 2,745.62 |
| 52 | PT0013 | Providing & applying one coat of primers - Wood work - white primer | 10.00 | Sq.M | 31.69 | 316.90 |
| 53 | PT0040 | Providing and applying finishing coats- Dry distemper, two coats on new work, including white priming coat for interior wall | 346.08 | Sq.M | 53.20 | 18,411.46 |

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| 54 | PT0111 | Providing, preparing and applying Ding Sumdang washable painting of | 300.00 | | 495.00 | 148,500.00 |
| H. External Works | | | | | | |
| 55 | PL-02-02 | Providing & laying RCC plinth protection including drains with broom or brush finish | 102.06 | sqm | 802.10 | 81,862.33 |
| 56 | PO0611 | Constructing Septic Tanks, in R.R Masonry in cement mortar 1:6, including fittings, C.I cover with frame, 40mm thick concrete flooring (40mm aggregates) cement plaster concrete base in C.C 1:4:8 etc. complete as per standard design-25 users | 1.00 | no | 44835.00 | 44,835.00 |
| 57 | PO0600 | Size 1200x1200x1200mm, filled with brick bats including 100mm SW drain pipe X 1200mm long | 1.00 | no | 6481.91 | 6,481.91 |
| 58 | DR0105 | Constructing Brick masonry manhole in cement mortar 1:5, R.C.C top slab with 1:2:4 20mm aggregates, foundation concrete 1:4:8 40mm aggregates, 12mm plaster in CM 1:3 finished with floating coat of neat cement and making channels in cement | 2.00 | no | 10545.96 | 21,091.92 |
| I. Plumbing work | | | | | | |
| 59 | PI0003 | Providing & fixing G.I. pipes including G.I. fittings & clamps & repair walls - 25mm | 30 | m | 381.83 | 11,454.90 |

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| 60 | PI0050-1 | Providing & fixing European-type vitreous china w.c pedestal including seat and lid with c.p. brass hinges, 15l white vitreous china low level cistern, fittings, brackets, repair walls - white, with plastic seat & lid AMERICAN STANDARD | 2 | each | 5225.74 | 10,451.48 |
| 61 | PI0065 | Providing & fixing white vitreous china flat back, lipped front urinal basin 430x260x350mm including C.I cistern & fittings, brackets, G.I. flush pipe & spreaders, brass unions, G.I. clamps, painting, repair walls-One bowl-5 litres. C.I. cistern | 2 | each | 4674.38 | 9,348.76 |
| 62 | PI0088-1 | P&F white vit.china wash basin, including C.I brackets, 15mm C.P. brass pillar taps, c.p. chain & rubber plug, 32mm p.v.c. waste, 32mm dia. trap & union, repair walls - Flat back wash basin 550x400mm with single 15mm c.p. brass pillar tap AMERICAN STADARD | 2 | each | 4318.69 | 8,637.38 |
| 63 | PI0123 | Providing & fixing Kitchen Sinks including all connections and fittings - Stainless steel, 940 x 460 x 160 mm, single bowl & drain-board | 1 | each | 1938.51 | 1,938.51 |
| 64 | PI0164-1 | Providing & fixing Electric water heater including necessary fittings - 50 litres VENUS | 1 | each | 16947.76 | 16,947.76 |
| 65 | PI0185 | Providing & fixing c.p. brass stop cock - 15mm, standard, c.p knob | 5 | each | 788.57 | 3,942.85 |
| 66 | PI0205 | Providing & fixing c.p. brass bibcock - 15mm, standard vertical, c.p knob | 2 | each | 677.74 | 1,355.48 |
| 67 | PI0220-1 | Providing & fixing c.p. kitchen mixers long nose,15mm-For sink,with casted spout swinging AMERICAN STANDARD | 1 | each | 2413.96 | 2,413.96 |
| 68 | PI0250 | Providing & fixing 600x450mm bevelled edge mirror (superior glass) incl.4mm A.C sheet base fixed to wooden cleats | 2 | each | 1160.28 | 2,320.56 |
| 69 | PI0252 | Providing & fixing c.p. towel rail 750 x 20mm with c.p brass brackets fixed to wooden cleats | 2 | each | 1055.03 | 2,110.06 |
| 70 | PI0260 | Providing & fixing toilet paper holder - C.P. brass | 2 | each | 560.43 | 1,120.86 |
| 71 | PI0275 | Providing & fixing soap dish - including brackets, wooden cleats, c.p. brass screws | 2 | each | 433.27 | 866.54 |
| 72 | PO0370 | Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 75mm dia | 15 | m | 202.96 | 3,044.40 |
| 73 | PO0372 | Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 110mm dia | 25 | m | 314.75 | 7,868.75 |
| 74 | PO0405 | Providing & fixing P.V.C plain bend - 75mm dia | 4 | each | 94.72 | 378.88 |
| 75 | PO0407 | Providing & fixing P.V.C plain bend - 110mm dia | 2 | each | 142.55 | 285.10 |
| 76 | PO0415 | Providing & fixing P.V.C door bend - 75mm dia | 5 | each | 133.99 | 669.95 |
| 77 | PO0417 | Providing & fixing P.V.C door bend - 110mm dia | 2 | each | 187.65 | 375.30 |
| 78 | PO0505 | Providing & fixing P.V.C Double Y, with door - 75mm dia | 1 | each | 328.03 | 328.03 |
| 79 | PO0507 | Providing & fixing P.V.C Double Y, with door - 110mm dia | 1 | each | 462.18 | 462.18 |
| 80 | PO0565 | Providing & fixing P.V.C Nahani Trap - 110mm inlet & 75mm outlet | 2 | each | 254.15 | 508.30 |
| 81 | SW-07-02 | Providing and fixing CP Bottle Trap of 32mm dia for Urenal | 2 | each | 750 | 1,500.00 |

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| 82 | PI0301 | Supply and Installation of Flow Guard CPVC pipes CTS-SDR 13.5 of 20 mm nominal size. | 25 | m | 194.99 | 4,874.75 |
| Total for civil works(Nu.) | | | | | | 4,824,937.27 |