

(CONSTRUCTION FIRM'S LETTERHEAD)

PROGRAM OF WORKS
REPAIR OF SCHOOL BUILDINGS / GAA 2018 (BEFF-REGULAR REPAIR)

| | |
|--------------------------------------|---|
| School: Baguio Central School | Date: |
| School I.D.: 136382 | Budget Allocation: |
| Region: CAR | Engineering and Administrative Overhead: |
| Division: Baguio City | Approved Budget for Contract: PHP 2,378,348.36 |
| Project Title: | Completion Period: 60 calendar days |
| REPAIR OF CLASSROOMS | Minimum Required Manpower: |
| | Project Engineer Welder Carpenter |
| | Material's Engineer Mason Painter |
| | General Foreman Helper |

| | |
|-----------------------------------|-------------------------------------|
| Plan: | Minimum Required Equipment: |
| Location: | Various Hand Tools H-Frame |
| Yandoc Street, Baguio City | Various Power Tools Bar Cutter |

| Item I.D. | Item Description | % of Total | Unit | Quantity | Total Cost | Remarks |
|-----------|---|------------|-------|----------|------------|---------|
| | I. DIRECT COST | | | | | |
| | General Requirements | | lot | 1.00 | | |
| A | Earthworks | | lot | 1.00 | | |
| B | Concreting Works (Class A) | | cu.m. | 5.51 | | |
| C | Rebar Works | | kg | 779.85 | | |
| D | Formworks & Scaffolding | | lot | 1.00 | | |
| E | Masonry Works | | lot | 1.00 | | |
| F | Roofing Works | | sq.m. | 384.40 | | |
| G | Carpentry Works | | lot | 1.00 | | |
| H | Electrical Works | | lot | 1.00 | | |
| I | Doors & Windows | | lot | 1.00 | | |
| J | Painting Works | | sq.m. | 1,835.56 | | |
| K | Sanitary Works | | lot | 1.00 | | |
| L | TILE WORKS | | sq.m. | 220.50 | | |
| | II. INDIRECT COST | | | | | |
| | Overhead Expenses 8% of (I - Gen. Requirements) | | | | | |
| | Contingencies 3% of (I - Gen. Requirements) | | | | | |
| | Miscellaneous 1% of (I - Gen. Requirements) | | | | | |
| | Contractor's Profit ___% of (I - Gen. Requirements) | | | | | |
| | Sub-Total | | | | | |
| | III. TAX 5% of (I+II) | | | | | |
| | Sub-Total | | | | | |
| | IV. TOTAL CONSTRUCTION COST (I + II + III) | | | | | |

Prepared:

SIGNATURE OVER PRINTED NAME

Construction Firm

(CONSTRUCTION FIRM'S LETTERHEAD)

PROJECT : REPAIR OF 10 CLASSROOMS
 SCHOOL : BAGUIO CENTRAL SCHOOL
 LOCATION: YANDOC STREET, BAGUIO CITY
 OWNER : DEPARTMENT OF EDUCATION
 SUBJECT : BILL OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | QTY | UNIT COST | | TOTAL COST | | GRAND TOTAL |
|----------|--|--------------|---------------|---|-------|------------|-------|-------------|
| | | | | MAT'L | LABOR | MAT'L | LABOR | |
| | GENERAL REQUIREMENTS | | | | | | | |
| | Mobilization/Temporary Structures, Utilities and Services/ Demobilization/ Tarpaulin, etc. | lot | 1.00 | | | | | |
| | Safety and Health | lot | 1.00 | | | | | |
| | Hauling cost | lot | 1.00 | | | | | |
| | Sub-total | | | | | | | |
| A | Earthworks | lot | 1.00 | | | | | |
| | Structural Excavation | cu.m | 27.40 | | | | | |
| | Backfilling and Compaction | cu.m | 10.50 | | | | | |
| | Gravel Bedding G-1 | cu.m | 1.15 | | | | | |
| | Soil Poisoning | sq.m | 11.25 | | | | | |
| | Sub-total | | | | | | | |
| B | Concreting Works (Class A) | cu.m. | 5.51 | | | | | |
| | Column Footing | cu.m. | 2.55 | | | | | |
| | Portland Cement | bag | 23.00 | | | | | |
| | Washed Sand | cu.m | 1.28 | | | | | |
| | Crushed Gravel 1" | cu.m | 2.55 | | | | | |
| | Columns | cu.m. | 1.25 | | | | | |
| | Portland Cement | bag | 12.00 | | | | | |
| | Crushed Gravel 3/4" | cu.m | 1.25 | | | | | |
| | Washed Sand | cu.m | 0.63 | | | | | |
| | Beams | cu.m. | 1.16 | | | | | |
| | Portland Cement | bag | 11.00 | | | | | |
| | Crushed Gravel 3/4" | cu.m | 1.16 | | | | | |
| | Washed Sand | cu.m | 0.58 | | | | | |
| | Wall Footing | cu.m. | 0.55 | | | | | |
| | Portland Cement | bag | 5.00 | | | | | |
| | Washed Sand | cu.m | 0.28 | | | | | |
| | Crushed Gravel 1" | cu.m | 0.55 | | | | | |
| | Sub-total | | | | | | | |
| C | Rebar Works | kg | 779.85 | | | | | |
| | Column Footing | kg | 142.05 | Column ties: 10mm RSB spaced 5@50mm, 3@75mm, 3@100mm & rest @150mm up to centerline | | | | |
| | Columns | kg | 325.99 | | | | | |
| | Beams | kg | 285.16 | Beam ties: 10mm RSB spaced 5@50mm, 3@75mm, 3@100mm | | | | |
| | Wall Footing (12mm RSB) | kg | 26.65 | 3@150mm & rest @200mm up to centerline | | | | |
| | Deformed Round Bars | kg | 779.85 | | | | | |
| | G.I. Tie Wire | kg | 6.00 | | | | | |
| | Sub-total | | | | | | | |
| D | Formworks & Scaffolding | lot | 1.00 | | | | | |
| | H-Frame Rental | sets | 250.00 | | | | | |
| | H-Frame Installation | sets | 250.00 | | | | | |
| | Good Lumber | bd.ft | 166.66 | | | | | |
| | Plywood Ordinary, 1/4" x 4' x 8' | pc | 5.00 | | | | | |
| | CWN, Assorted | kg | 8.00 | | | | | |
| | Sub-total | | | | | | | |
| E | Masonry Works | lot | 1.00 | | | | | |
| | Masonry Wall (Class A Mixture) | sq.m. | 43.87 | | | | | |
| | Demolition of Masonry Wall | sq.m | 16.32 | | | | | |
| | Portland Cement | bag | 67.00 | | | | | |
| | Washed Sand | cu.m | 3.71 | | | | | |
| | CHB 6" thk | pc | 549.00 | | | | | |
| | 10mm x 6m RSB | kg | 115.79 | | | | | |

| | | | | | | | |
|----------|--|--------------|---------------|--|--|--|--|
| | G.I. Tie Wire | kg | 4.00 | | | | |
| | Plastering (Class B Mixture @ 20mm thick plaster) | sq.m. | 102.12 | | | | |
| | Portland Cement | bag | 45.00 | | | | |
| | Washed Sand | cu.m | 2.45 | | | | |
| | Sub-total | | | | | | |
| F | Roofing Works | sq.m. | 384.40 | | | | |
| | Removal of Roofing Sheets | sq.m | 384.40 | | | | |
| | Removal of Ridge Roll | pc | 14.00 | | | | |
| | Removal of Flashing | pc | 6.00 | | | | |
| | Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm thk | LM | 408.00 | | | | |
| | Ridge Roll, Pre-Painted, Ordinary, 0.610m x 2.440m x 0.4mm thk | pc | 14.00 | | | | |
| | Flashing, Pre-Painted, Spanish, 0.610m x 2.440m x 0.4mm thk | pc | 6.00 | | | | |
| | Gutter, Pre-Painted, Spanish, 0.610m x 2.440m x 0.4mm thk | m | 28.00 | | | | |
| | Teckscrew 2-1/2" | kg | 3,000.00 | | | | |
| | Roof Sealant | L | 2.00 | | | | |
| | Blind Rivets | pc | 350.00 | | | | |
| | Fascia Board, 3/4" x 10" S4S Lumber | bd.ft | 127.10 | | | | |
| | Sub-total | | | | | | |
| G | Carpentry Works | lot | 1.00 | | | | |
| | Wooden Flooring | lot | 1.00 | | | | |
| | Removal of T&G Flooring | bd.ft | 3,700.00 | | | | |
| | 1"x4" T&G Planks | L.Ft | 3,700.00 | | | | |
| | Lumber, Hard Wood (2x8) | bd.ft | 1,168.3744 | | | | |
| | CWN, Assorted | kg | 15.00 | | | | |
| | Finishing Nails, Assorted | kg | 15.00 | | | | |
| | Ceiling & Interior Partition | sq.m. | 302.41 | | | | |
| | Removal of Ceiling | sq.m | 242.00 | | | | |
| | Plywood, Marine 1/4" x 4' x 8' | pc | 106.00 | | | | |
| | Rough Lumber, Sun Dried, Tanguile | bd.ft | 1,196.00 | | | | |
| | Finishing Nails | kg | 7.00 | | | | |
| | Common Wire Nails | kg | 23.00 | | | | |
| | Concrete Nails | kg | 7.00 | | | | |
| | Blackboards | set | 10.00 | | | | |
| | Removal of Dilapidated Blackboard & Accs. | set | 10.00 | | | | |
| | S4S Lumber, Kiln Dried | bdf | 51.20 | | | | |
| | Lawanit, 1/4" thick | pc | 20.00 | | | | |
| | Finishing Nails | kg | 1.40 | | | | |
| | Common Wire Nails | kg | 18.00 | | | | |
| | Concrete Nails | kg | 1.00 | | | | |
| | Sub-total | | | | | | |
| H | Electrical Works | lot | 1.00 | | | | |
| | Roughing-ins | | | | | | |
| | Electrical Conduit uPVC, 15mmØ | pc | 110.00 | | | | |
| | RSC 20mmØ | pc | 1.00 | | | | |
| | Entrance Cap 20mm dia. | pc | 1.00 | | | | |
| | Junction Box, 4" x 4" | pc | 60.00 | | | | |
| | Utility Box, 2" x 4" | pc | 50.00 | | | | |
| | Wires & Fixtures | | | | | | |
| | 2.0 mm2 THW Wire, Stranded | m | 1,000.00 | | | | |
| | 3.5 mm2 THW Wire, Stranded | m | 750.00 | | | | |
| | 5.5 mm2 THW Wire, Stranded | m | 60.00 | | | | |
| | Duplex C.O. with Plate | pc | 40.00 | | | | |
| | 2-Gang Switch with Plate (flushed) | pc | 10.00 | | | | |
| | FL 2 x 40W Industrial Type | set | 60.00 | | | | |

| | | | | | | | | |
|-------------|--|--------------|-----------------|--|--|--|--|--|
| | Circuit Breaker, 15A 2P | set | 10.00 | | | | | |
| | Circuit Breaker, 25A 2P | set | 10.00 | | | | | |
| | Circuit Breaker, 40A 2P | set | 10.00 | | | | | |
| | Panel Box, Flush Type, 4 Branches | set | 10.00 | | | | | |
| | Electrical Tape | pc | 6.00 | | | | | |
| | Sub-total | | | | | | | |
| I | Doors & Windows | lot | 1.00 | | | | | |
| | Removal of Door with Jamb | set | 10.00 | | | | | |
| | Removal of Window with Jamb | sq.m | 220.98 | | | | | |
| | Steel Door 0.90m x 2.10m complete with accessories | set | 10.00 | | | | | |
| | Analoc Aluminum Window with complete accessories | sq.m. | 57.60 | | | | | |
| | 4.5mm x 25mm flat bar | pcs | 30.00 | | | | | |
| | 10mm square bar | pcs | 75.00 | | | | | |
| | Red Oxide Primer | gal | 3.00 | | | | | |
| | Sub-total | | | | | | | |
| J | Painting Works | sq.m. | 1,835.56 | | | | | |
| | <i>Concrete surfaces</i> | sq.m | 793.73 | | | | | |
| | Latex, Flat | gal | 64.00 | | | | | |
| | Putty Filler | gal | 6.00 | | | | | |
| | Neutralizer | gal | 3.00 | | | | | |
| | Paint Brush 2" | pc | 4.00 | | | | | |
| | Paint Roller with Pan | pc | 8.00 | | | | | |
| | Steel Brush | pc | 4.00 | | | | | |
| | Sand Paper #80 | pc | 80.00 | | | | | |
| | <i>Wood & Metal Surfaces</i> | sq.m | 821.33 | | | | | |
| | Enamel, Flatwall | gal | 33.00 | | | | | |
| | Enamel, Semi Gloss | gal | 33.00 | | | | | |
| | Glazing Putty | gal | 28.00 | | | | | |
| | Paint Thinner | gal | 11.00 | | | | | |
| | Paint Brush 2" | pc | 4.00 | | | | | |
| | Paint Roller with Pan | pc | 8.00 | | | | | |
| | Sand Paper #100 | pc | 85.00 | | | | | |
| | <i>Floor Finish</i> | sq.m | 220.50 | | | | | |
| | Lacquer Thinner | gal | 6.00 | | | | | |
| | Sanding Sealer | gal | 9.00 | | | | | |
| | Wood Stain (Light Oak - 2 Coats) | gal | 18.00 | | | | | |
| | Polyurethane Paint | gal | 15.00 | | | | | |
| | Paint Brush 4" | pc | 6.00 | | | | | |
| | Sand Paper #120 | pc | 75.00 | | | | | |
| | Sub-total | | | | | | | |
| K | Sanitary Works | lot | 1.00 | | | | | |
| | PVC Pipe 3"Ø, S-1000 | pc | 54.00 | | | | | |
| | uPVC Elbow 90o x 3"Ø | pc | 45.00 | | | | | |
| | PVC Cement | can | 4.00 | | | | | |
| | Sub-total | | | | | | | |
| L | TILE WORKS | sq.m. | 220.50 | | | | | |
| | Chipping of Existing Concrete Floorin | sq.m. | 220.50 | | | | | |
| | Unglazed Floor Tiles 30cm x 30cm | pc | 2,450.00 | | | | | |
| | Tile Grout 2 kg/bag | bag | 6.00 | | | | | |
| | Tile Adhesive 25 kg/bag | bag | 7.00 | | | | | |
| | Portland Cement | bag | 74.00 | | | | | |
| | Washed Sand | bag | 11.03 | | | | | |
| | Sub-total | | | | | | | |
| I. | DIRECT COST | | | | | | | |
| II. | INDIRECT COST _____ % of (I-General Requirements) | | | | | | | |
| III. | TAX 5% of (I+II) | | | | | | | |
| IV. | TOTAL CONSTRUCTION COST (I+II+III) | | | | | | | |

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