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Eng1121, E115

Prof. Schmerler Skill: COOKING

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Example:

Estimating Spreadsheet (Bid)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **DESCRIPTION** | **Qty** | **Units** | **Unit Price** | **Price Total** |
| **DIV 1 - GENERAL REQUIREMENTS** | | | | | |
|  | Allowances ($72,000.00) | 1 | LS |  |  |
| Guarantees & Warranties | 1 | LS | $13,000.00 | $ 13,000.00 |
| Bonds (2.5%) | 1 | LS | $40,000.00 | $ 40,000.00 |
| Project Supervision | 24 | MO | $ 3,000.00 | $ 72,000.00 |
| Permit & Fees | 1 | LS | $ 3,000.00 | $ 3,000.00 |
| Temporary Toilet (6Mx$600.00) | 6 | Mo | $ 600.00 | $ 3,600.00 |
| Temporary Fence | 1 | LS | $ 3,500.00 | $ 3,500.00 |
| 8' wide sidewalk bridge (including 3 months rent) | 80 | FT | $ 140.00 | $ 11,200.00 |
| Sidewalk bridge rent (5%/MO) | 6 | MO | $ 560.00 | $ 3,360.00 |
| Pipe scaffolding (including 1 month rent) | ##### | SF | $ 5.00 | $ 90,000.00 |
| Pipe scaffolding rent | 6 | MO | $ 4,500.00 | $ 27,000.00 |
| Engineering | 1 | LS | $ 5,000.00 | $ 5,000.00 |
| Miscellaneous site protection | 1 | LS | $ 7,000.00 | $ 7,000.00 |
| Final Cleanup | 1 | LS | $ 5,000.00 | $ 5,000.00 |
| Any missing item | 1 | LS | $10,000.00 | $ 10,000.00 |
|  | Closing | 1 | LS | $ 3,000.00 | $ 3,000.00 |
|  |  |  |  |  |  |
| DIVISION 02 - ASBESTOS & LEAD ABATEMENT | | | | | |
|  | SUB PRICE (ATCO) | 1 | LS | $ 94,000.00 | $ 94,000.00 |
| DIVISION 03 - CONCRETE | | | | | |
|  | SKYLIGHT INFILL | 32 | SQ FT | $ 200.00 | $ 6,400.00 |
|  | PATCH TO CONCRETE SLAB AT ROOF DRAIN | 8 | EA | $ 375.00 | $ 3,000.00 |
| DIVISION 04 - MASONRY | | | | | |
|  | CUTOUT MORTAR JOINTS AT EACH SIDE OF EXIST CRACK & PROVIDE JOINT REINFORCEMENT. R/P REPLACEMENT UNIT AT CRACKED BRICK & REPOINT | 175 | FT | $ 125.00 | $ 21,875.00 |
|  | THREE COURSE OF BRICK POINTING AT EXTERIOR FACE OF PARAPET | 2,750 | FT | $ 20.00 | $ 55,000.00 |
|  | Three course brick pointing at interior face of parapet | 3,750 | FT | $ 20.00 | $ 75,000.00 |
|  | CONTROL JOINT IN INSIDE WYTHE OF BRICK PARAPET - PROVIDE RESTORATION ANHOR ALONG EACH SIDE OF JOINT, SAwcut joint and provide backer rod and type 1 sealant | 100 | FT | $ 125.00 | $ 12,500.00 |
|  | REMOVE & RECONSTRUCT PARAPET WITH 6" BACKUP CMU, 4" BRICK REPLACEMENT UNITS, EXP JOINT. | 490 | SQ FT | $ 140.00 | $ 68,600.00 |
|  | REINSTALL COPING STONE OVER THROUGH WALL FLASHING | 125 | FT | $ 145.00 | $ 18,125.00 |
|  | COPING STONE JOINTS - DEEP REPOINT AND PROVIDE BACKER ROD AND TYPE 1 SEALANT WITH WEATHER CAP | 180 | FT | $ 20.00 | $ 3,600.00 |
| DIVISION 05 - METALS | | | | | |
|  | S2 - REPLACE STAIR CASE | 10 | SQ FT | $ 450.00 | $ 4,324.50 |
|  | S3 - STEEL LADDER | 1 | EA | $ 2,000.00 | $ 2,000.00 |
| DIVISION 06 - WOOD, PLASTICS, AND PROTECTION | | | | | |
|  | WOOD NAILERS AND BLOCKING | 1 |  | $ 6,000.00 | $ 6,000.00 |
| DIVISION 07 - THERMAL AND MOISTURE PROTECTION | | | | | |
|  | R1 - 90MM EPDM, INSULATIVE COVER BOARD (1/2"), INSULATION R30 & VAPOR BARRIER IN PRIMER\_ADHESIVE | 12,400 | SQ FT | $ 22.00 | $ 272,800.00 |
|  | DUNNAGE TO BE REMOVED AND RESET | 1 |  | $ 20,000.00 | $ 20,000.00 |
|  | R3 - FLASHING AT EXIST VENT PIPE | 4 | EA | $ 150.00 | $ 600.00 |
|  | R4 - PITCH POCKET AT EXIST VENT PIPE | 13 | EA | $ 250.00 | $ 3,250.00 |
|  | R5 - FLASHING AT EXIST MECHANICAL DUCT PENETRATION | 10 | EA | $ 175.00 | $ 1,750.00 |
|  | R6 - FLASHING AT EXIST ELECTRICAL DUCT PENETRATION | 15 | EA | $ 125.00 | $ 1,875.00 |
|  | SS FLASHING & COUNTER FLASHING AT HIGH LIMESTONE CORNICE | 307 | FT | $ 115.00 | $ 35,248.65 |
|  | SS COUNTER FLASHING, REGLET INTO JOINT | 428 | FT | $ 45.00 | $ 19,261.80 |
|  | RTE DUNNAGE - 3/4" PLY WOOD, 1/2" INSULATIVE BOARD, EPDM 5' WIDE | 86 | FT | $ 100.00 | $ 8,649.00 |
|  | SS GRAVEL STOP AT ROOF LEVEL CHANGE | 70 | FT | $ 45.00 | $ 3,130.20 |
| DIVISION 09 - FINISHES | | | | | |
|  | PATCH FOR RD | 800 | SF | $ 20.00 | $ 16,000.00 |
|  | PAINT | 800 | SF | $ 5.00 | $ 4,000.00 |
|  | GB WALL WORK FOR RD | 8 | EA | $ 150.00 | $ 1,200.00 |
| DIVISION 22 - PLUMBING | | | | | |
|  | R2 - REMOVE EXIST RD & REPLACE WITH NEW INCL ALL ACCESSORIES | 8 | EA | $ 2,200.00 | $ 17,600.00 |
| DIVISION 23 - MECHANICAL | | | | | |
|  | DISCONNECT EXIST. EXHAUST FAN & SALVAGE FOR RE-INSTALLATION, 4" EXTENSION OF METAL DUCTWORK TO ACCOMMODATE THE RISE IN HEIGHT | 1 | LS | $ 20,000.00 | $ 20,000.00 |
| DIVISION 26 - ELECTRICAL | | | | | |
|  | BASIC ELECTRICAL WORKS | 1 | LS | $ 20,000.00 | $ 20,000.00 |
|  |  |  |  |  |  |
|  | **Total for Miscellaneous Items** |  |  |  | **$ 1,112,449.15** |
|  | **Profit 20%** |  |  |  | **$ 278,112.29** |
|  | **Total Bid Price** |  |  |  | **$ 1,390,561.44** |

Analysis:

For my second genre, I chose my dad’s work. He is a civil engineer and also works as a project manager. The work I chose is called an estimating spreadsheet (Bid). The project consists of different types of activities as well as materials. The data is arranged in rows and columns an order that’s electronic form called a spreadsheet. With the help of the spreadsheet, cost evaluation will become very easy. Its audience is the owning entity of the construction project. It is usually written by the estimator. So, an estimator is a person who breaks down a construction project by materials being used in the project to develop activities involved in the project and a project manager is a personal in construction who leads the progress of construction project by supervising labor production rates so that they finish every task within the desired time and budget. Also responsible for management of purchase of materials within the desired cost but the subcontractors and the prime contractors' proposal management team is also responsible for writing their portion of the work involved in the bid. The community involved in the process are the owner, prime contractor, subcontractors, material and equipment suppliers, union or nonunion labors, architectural design firm, structural design firm, and testing laboratories.

My Writing:

Recipe Spreadsheet

(Chicken Tikka Masala)

By using the idea of the estimating spreadsheet (Bid) I made a recipe spreadsheet for my 2nd genre.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ingredients** | **Qty** | **Units** | **Units Price** | **Total Price** |
| **Chicken Marinade:** | | | | |
| Plain Yogurt | 1 | oz | $1.00 | $1.00 |
| Lemon Juice | 1/2 | tsp | $0.64 | $0.32 |
| Garlic | 3 | cloves | $0.08 | $0.24 |
| Ginger | 1 | tbsp | $0.11 | $0.11 |
| Garam Masala | 1 | tbsp | $0.45 | $0.45 |
| Salt | 1/2 | tsp | $0.04 | $0.02 |
| Boneless Skinless Chicken | 2 | lbs | $2.89 | $5.78 |
| **Sauce:** | | | | |
| Vegetable/Canola oil | 2 | tbsp | $0.02 | $0.04 |
| Butter | 2 | tbsp | $0.04 | $0.08 |
| Onions (Diced) | 2 |  | $0.52 | $1.04 |
| Tomato Sauce | 16 | oz | $0.06 | $1.00 |
| Heavy Cream | 8 | oz | $0.13 | $1.04 |
| Turmeric Powder | 1/2 | tsp | $0.10 | $0.05 |
| Ground Red Chili Powder | 1 | tsp | $0.10 | $0.10 |
|  |  | Total |  | $11.27 |
|  |  | Profit | 20% | 1.54 |
|  |  | **Total Bid Price** |  | $12.72 |