

## PART C.2 JMP FIRE

### DETAIL BILL OF QUANTITIES JMP FIRE - FRAMEWORK

|                |  |             |                  |                 |                   |
|----------------|--|-------------|------------------|-----------------|-------------------|
| 1              | <b>PRELIMINARIES TO THE BILL</b>   |             |                  |                 |                   |
|                | This Bill of Quantities forms part of the contract documents and is to be read in conjunction therewith.   |             |                  |                 |                   |
| 2              | All works billed here shall include for the full scope of service specified including but not limited to supply, delivery, installation, commissioning, documentation, building tuning, project closeout and administrative requirements, and all works as necessary to provide a working product in accordance with the project performance criteria.   |             |                  |                 |                   |
| 3              | Quantities indicated here are to be verified by the contractor against the project drawings. All discrepancies shall be brought to the attention of the responsible engineer. Should no queries be raised the contract totals and rates provided shall be deemed sufficient for the due execution of the works in accordance with the engineers intent communicated through the project drawings and these specifications. |             |                  |                 |                   |
| 4              | No variation in rates shall be due based on variation in quantities, rate of exchange or escalation.   |             |                  |                 |                   |
| 5              | Errors and omissions of equipment or material required to execute the project solution specified or indicated on the drawings shall be brought to the attention of the responsible engineer for clarification, failing which the provision of such items shall be deemed included in the project rates.  |             |                  |                 |                   |
| 6              | All works required to execute the scope of works in accordance with the project program and quality requirements are deemed included in the rates and totals provided below.   |             |                  |                 |                   |
| 7              | Rates provided shall include for fixing, hangers, fittings, transformations, sealant and all other items required to deliver a functional system in accordance with the design intent and specifications. Rate includes the supply,delivery,labour and installation of equipment   |             |                  |                 |                   |
| 8              | The bill of quantities shall not be used as the basis for material order.  |             |                  |                 |                   |
| 9              | The values here shall be entered in South African Rands and exclusive of VAT.  |             |                  |                 |                   |
| <b>ITEM NO</b> | <b>DESCRIPTION</b>   | <b>UNIT</b> | <b>QUAN-TITY</b> | <b>RATE - R</b> | <b>AMOUNT - R</b> |
| 1              | <b>BILL 1 - PRELIM &amp; GENERAL</b>   |             |                  |                 |                   |
| 1,1            | P & Gs   |             |                  |                 |                   |
| 2              | <b>BILL 2 - GROUND, FIRST &amp; SECOND FLOORS - FIRE FIGHTING EQUIPMENT</b>  |             |                  |                 |                   |
| 2,1            | <b>GROUND FLOOR</b><br><b>FIRE Fighting Equipment</b>  |             |                  |                 |                   |
|                | Supply and install Fire fighting equipment complete with all piping, supports, hangers, couplings etc  |             |                  |                 |                   |
|                | Supply, install, test, commission and hand over of complete Hydrant and Hose Reel System as shown on the relevent drawings .   |             |                  |                 |                   |
|                | Supply and installation Fire Hydrant complete with 65 mm dia brass right angle fire hydrants complete with and all accessories mounted inside cabinets and/or surface mounted and connected to piping.   |             |                  |                 |                   |
|                | Supply & Install Fire Hose Reels (30m long) c/w chromium plated 25mm valve, pressure guage & cock, fittings, fixings, etc.   |             |                  |                 |                   |
|                | Supply and Install Portable Fire Extinguishers c/w mounting brackets fixed inside cabinets, signage and surface mounted where required mounted inside cabinets.  |             |                  |                 |                   |
|                | Supply and install all statutory signs on chromadek or similar complete with hangers, supports etc.  |             |                  |                 |                   |
|                | <b>FIRE HYDRANTS</b>   |             |                  |                 |                   |
|                | Dia.65 Right angle hydrants  | No          | 3                |                 |                   |
|                | Double Booster - Storz   | No          | 1                |                 |                   |



|   |   |      |     |  |            |  |                  |
|---|---|------|-----|--|------------|--|------------------|
|   | <b>FIRE EXTINGUISHERS</b>   |      |     |  |            |  |                  |
|   | 4,5DCP Fire extinguishers   | No   | 12  |  |            |  |                  |
|   | <b>GROUND, FIRST &amp; SECOND FLOORS FIRE PIPING &amp; SIGNAGE</b>  |      |     |  |            |  |                  |
|   | Supply and install FHR piping c/w fittings, coupling, supports, Isolating valves, pressure gauges etc.  |      |     |  |            |  |                  |
|   | 100Dia. Pipe  | m    | 360 |  |            |  |                  |
|   | 80Dia. Pipe   | m    | 50  |  |            |  |                  |
|   | 65Dia. Pipe   | m    | 40  |  |            |  |                  |
|   | 40Dia. Pipe   | m    | 70  |  |            |  |                  |
|   | 25Dia. Pipe   | m    | 140 |  |            |  |                  |
|   | Fire Signages   | Lot  | 1   |  |            |  |                  |
| <b>3</b>                                    | <b>BILL 3 - GROUND, FIRST &amp; SECOND FLOORS - SPRINKLER INSTALLATIONS</b>   |      |     |  |            |  |                  |
| <b>3,1</b>                                  | <b>Sprinkler statem</b>   |      |     |  |            |  |                  |
|   | Supply, installation, erection, testing, and commissioning of the sprinkler installation including T-pieces, Elbows, Concentric Reducers, cutting, jointing, pipe couplings, piping, arm pipes, fittings, sprinklers, cleaning, bracketing, hangers, heat shields (where required), guards (where required), water shields (where required), fixing, supports, scaffolding, skyjacks (it required) as tender design drawings. |      |     |  |            |  |                  |
|   | Supply and install Connecting Arm Piping, pipework from sprinkler range pipe to sprinkler including all pipe fittings, cutting, preparing, threading, jointing, cleaning, testing and bracketing of pipework for the following sprinkler types  |      |     |  |            |  |                  |
|   | Painting and identification of all fire pipe work as per SANS. Painting and marking of all exposed pipe work, equipment where required.   |      |     |  |            |  |                  |
|   | 68°C White Pendant Quick Response Sprinkler   | No   | 915 |  |            |  |                  |
|   | White Rosettes  | No   | 915 |  |            |  |                  |
| <b>3,2</b>                                  | <b>Water supplies</b>   |      |     |  |            |  |                  |
|   | Supply & install Diesel/Electric driven pump set with a minimum flow of 4500l/min @600kpa and Jokey pump.   | No   | 1   |  |            |  |                  |
| <b>3,2</b>                                  | <b>Water supplies</b>   |      |     |  |            |  |                  |
|   | Supply & install Diesel/Electric driven pump set with a minimum flow of 4500l/min @600kpa and Jokey pump.   | No   | 1   |  |            |  |                  |
|   | 150Dia.Piping   | m    | 50  |  |            |  |                  |
|   | 100Dia. Piping  | m    | 410 |  |            |  |                  |
|   | ICV 150Dia -Set   | No   | 1   |  |            |  |                  |
| <b>4</b>                                    | <b>BILL 4 - FIRE ELECTRICAL</b>   |      |     |  |            |  |                  |
|   | Electrical installation and wiring, complete for all pumps, including DB's local starter/isolator , controls etc  | Lot  | 1   |  |            |  |                  |
|   | Fitting and wiring of controllers, sensors etc  | Lot  | 1   |  |            |  |                  |
|   | Cable trays, Conduits or and trunkings etc  | Lot  | 1   |  |            |  |                  |
|   | Labelling of equipment  | Lot  | 1   |  |            |  |                  |
| <b>5</b>                                    | <b>BILL 5 - COMMISSIONING AND TESTING, DRAWINGS, MAINTENANCE AND SERVICING</b>  |      |     |  |            |  |                  |
|   | Testing, commissioning and handover of the works  | Item | 1   |  |            |  |                  |
|   | 3 sets of Operating and Maintenance manuals with as built drawings  | Item | 1   |  |            |  |                  |
|   | Comprehensive service and maintenance during the 12 months guarantee period including spare filters   | Item | 1   |  |            |  |                  |
| <b>6</b>                                    | <b>BILL 6 - PROVISIONAL SUMS</b>  |      |     |  |            |  |                  |
|   | Additional pipe fittings, drain and refill of existing tank and water meter etc.  | Item | 1   |  | 250 000,00 |  | <b>R 250 000</b> |
|   | Additional for Wet Services.  | Item | 1   |  | 250 000,00 |  | <b>R 250 000</b> |
| <b>CARRY ALL SUB TOTAL TO SUMMARY PAGE.</b> |   |      |     |  |            |  |                  |
| <b>(Carried forward to Summary - JMP)</b>   |   |      |     |  |            |  |                  |