

C4021 - CSIR 3457 PHARMA - WET SERVICES - PRICE BREAKDOWN SCHEDULE - BP

| m | ese prices shall be firm and not subject to price adjustment) Description | Unit | QTY | Supply Rate | Total Supply | Install Rate | Amour |
|-----|--|------|-----|-------------|--------------|--------------|-------|
| | Work shall comply with the relevant conditions and installation specifications of SANS | | | | | | |
| | 10252-2, manufacturers specifications and local By-laws and Regulations. Contractor | | | | | | |
| | shall issue a certificate of compliance in terms of local By-laws upon completion. All | | | | | | |
| | works, equipment and practices shall be SABS complient and equipment stamped as | | | | | | |
| | such. | | | | | | |
| | Such. | | | | | | |
| | Rates shall include allowance for fixings and bracketing of piping reticulation to walls | | | | | | |
| | and soffits. | | | | | | |
| | FOUL SEWER DRAINAGE | | | | | | |
| 1.1 | Supply and install Geberit HDPE, or equal alternative pipe: | | | | | | |
| | 10 | | | | | | |
| 1 | 40mm pipe | m | 4.5 | | | | |
| 2 | 56mm pipe | m | 0 | | | | |
| 3 | 63mm pipe | m | 31 | | | | |
| 4 | 75mm pipe | m | 0 | | | | |
| 5 | 110mm pipe | m | 29 | | | | |
| 6 | 50mm-50mm-50mm 45° branch junction | no | 0 | | | | |
| 7 | 56mm-56mm-56mm 45° branch junction | no | 0 | | | | |
| 8 | 63mm-63mm-40mm 45° branch junction | no | 4 | | | | |
| 9 | 63mm-63mm-56mm 45° branch junction | no | 1 | | | | |
| 10 | 63mm-63mm-63mm 45° branch junction | no | 3 | | | | |
| 11 | 75mm-75mm-63mm 45° branch junction | no | 0 | | | | |
| 12 | 110mm-110mm-63mm 45° branch junction | no | 4 | | | | |
| 12 | 110mm-110mm-110mm 45° branch junction | no | 1 | | | | |
| 13 | 63mm-63mm-63mm-63mm 45° double branch junction | no | 1 | | | | |
| | 40 450 h d | | 40 | | | | |
| 14 | 40mm 45° bend | no | 13 | | | | |
| 15 | 50mm 45° bend | no | 0 | | | | |
| 16 | 63mm 45° bend | no | 23 | | | | |
| 17 | 110mm 45° bend | no | 2 | | | | |
| 18 | 40 x 32mm reducer | no | 12 | | | | |
| 19 | 50 x 40mm reducer | no | 1 | | | | |
| 20 | 63 x 40mm reducer | no | 8 | | | | |
| 21 | 110 x 75mm reducer | no | 0 | | | | |
| 22 | 110 x 63mm reducer | no | 1 | | | | |
| 23 | 56mm rodding eye and cap | no | 0 | | | | |
| 23 | 63mm rodding eye and cap | no | 5 | | | | |
| 25 | | | 0 | | | | |
| 25 | 110mm rodding eye and cap | no | U | | | | |
| 26 | 75mm screw on stopend & one way vent valve (air admittance valve) | no | 2 | | | | |
| 27 | 63mm HDPE Anti-siphon Bottle Trap | no | 9 | | | | |
| 28 | Supply and install new gulley | no | 0 | | | | |
| 29 | Connect to existing sewer piping | no | 3 | | | | |
| 1.2 | Test drainage installation. | sum | 1 | | | | |
| | | | | | | | |
| | | | | | | | |



| m | Description | Unit | | Supply Rate | Total Supply | Install Rate | Amoun |
|--------|--|----------|-----|-------------|--------------|--|-------|
| | Work shall comply with the relevant conditions and installation specifications of SANS | | | | | | |
| | 10252-1, manufacturers specifications and local By-laws and Regulations. Sub- | | | | | | |
| | Contractor shall issue a certificate of compliance in terms of local By-laws upon | | | | | | |
| | completion. All works, equipment and practices shall be SABS compliant and | | | | | | |
| | equipment stamped as such. | | | | | | |
| | | | | | | | |
| | Rates shall include allowance for fixings and bracketing of piping reticulation to walls | | | | | | |
| | and soffits. | | | | | | |
| | COLD WATER SUPPLY | | | | | | |
| | | | | | | | |
| 2.1 | Supply and install Copper class 2, or equal alternative, pipe (outside diameter): | | | | | | |
| 1 | 15mm pipes | m | 94 | | | | |
| 2 | | m | 12 | | | | |
| 3 | | m | 12 | | | | |
| | | | | | | | |
| 2.2 | Supply and install DZR Brass fittings: | | | | | | |
| 1 | 15mm 90° bend | no | 51 | | | | |
| 2 | | no | 5 | | | | |
| 3 | | no | 5 | | | | |
| | | | | | | | |
| 4 | | no | 9 | | | | |
| 5 | | no | 4 | | | | |
| 6 | 28 mm x 22 mm reducer | no | 1 | | | | |
| 6 | 35 mm x 15 mm reducer | no | 1 | | | | |
| 7 | 15 x 15 x 15mm tee junction | no | 3 | | | | |
| 8 | | no | 7 | | | | |
| 9 | | no | 4 | | | | |
| | 20 X 20 X 20 X III X X X X X X X X X X X X X X X X | | | | | | |
| 2.3 | Supply and install valves including threaded capillary fittings for connection to sanitary | | | | | | |
| | fixtures, etc. to copper pipe: | | | | | | |
| | 4F | | 12 | | | | |
| 1 2 | 15mm stop valve 22mm stop valve | no no | 0 | | | | |
| 3 | | no | 0 | | | | |
| 4 | | no | 0 | | | | |
| - 4 | Territostatio mixing valve | 110 | U | | | | |
| 4 | 25mm Pressure reducing valve with guage | no | 1 | | | | |
| 5 | | no | 1 | | | | |
| | | | | | | | |
| 2.4 | Connect to existing water supply pipe | sum | 1 | | | | |
| 2 F | Testing of complete installed cold water system. | sum | 1 | | | | |
| 2.5 | resung or complete installed cold water system. | Suiii | - ' | | | | |
| | | 1 | | | | | |



| | se prices shall be firm and not subject to price adjustment) Description | Unit | | Committee Data | Tatal Commiss | In adall Data | A |
|-----|--|------|----|----------------|---------------|---------------|-------|
| m | Work shall comply with the relevant conditions and installation specifications of SANS | Unit | | Supply Rate | Total Supply | Install Rate | Amour |
| | | | | | | | |
| | 10252-1, manufacturers specifications and local By-laws and Regulations. Sub- | | | | | | |
| | Contractor shall issue a certificate of compliance in terms of local By-laws upon | | | | | | |
| | completion. All works, equipment and practices shall be SABS compliant and | | | | | | |
| | equipment stamped as such. | | | | | | |
| | Rates shall include allowance for fixings and bracketing of piping reticulation to walls | | | | | | |
| | and soffits. | | | | | | |
| | HOT WATER SUPPLY AND RETURN | | | | | | |
| 0.4 | Owner have distributed to the design of the second second section of the second | | | | | | |
| | Supply and install insulated Copper class 2, or equal alternative, pipe (outside | | | | | | |
| | diameter): | | | | | | |
| 1 | 15mm pipes | m | 63 | | | | |
| 2 | 22mm pipes | m | 10 | | | | |
| 2 | 28mm pipes | m | 19 | | | | |
| 3.2 | Supply and install insulated DZR Brass fittings: | | | | | | |
| 1 | 15mm 90° bend | no | 47 | | | | |
| 2 | 22mm 90° bend | no | 15 | | | | |
| 3 | 22 mm x 15 mm reducer | no | 5 | | | | |
| 4 | 28 mm x 15 mm reducer | no | 3 | | | | |
| 5 | 15 x 15 x 15mm tee junction | no | 6 | | | | |
| 6 | 22 x 22 x 22mm tee junction | no | 4 | | | | |
| 6 | 28 x 28 x 28mm tee junction | no | 0 | | | | |
| 3.3 | Supply and install valves including threaded capillary fittings for connection to sanitary | | | | | | |
| 0.0 | fixtures, etc. to copper pipe: | | | | | | |
| 1 | 15mm stop valve | no | 8 | | | | |
| 2 | 15mm Non-return valve | no | 1 | | | | |
| 3 | Air relieve valve | no | 2 | | | | |
| 4 | 15mm Strainer | no | 1 | | | | |
| 4 | Globe Valve | no | 3 | | | | |
| 0.4 | To all the of a constitute to shall add to the state of t | | | | | | |
| 3.4 | Testing of complete installed hot water system. | sum | 1 | l | | 1 | |



| em | Description | Unit | QTY | Supply Rate | Install Rate | Amoun |
|-----|--|------|-----|-------------|--------------|-------|
| | Work shall comply with the relevant conditions and installation specifications of SANS | | | | | |
| | 10252-1, SANS 10254, manufacturers specifications and local By-laws and | | | | | |
| | Regulations. Sub-Contractor shall issue a certificate of compliance in terms of local By- | | | | | |
| | laws upon completion. All works, equipment and practices shall be SABS compliant | | | | | |
| | and equipment stamped as such. | | | | | |
| 41 | Hot water generation plant: Procurement, supply, manufacture, delivery to site, storage | | | | | |
| | and installation of: | | | | | |
| 1 | Heat Pump: KWIKOT c/w a circulating water pump, electronic expansion valve, four- | | | | | |
| ' | way valve and all associated fittings and consumables required for a fully complete, | no | | | | |
| | way valve and all associated littings and consumables required for a fully complete, working system as per layouts | 110 | 1 | | | |
| 2 | Hot Water Geyser: KWIKOT DUAL SUPERLINE 150 litre c/w 3kW backup elements, | | | | | |
| | electrical connecton, drip tray and electric water heater blanket and all associated | no | | | | |
| | fittings and consumables required for a fully complete, working system. | 110 | | | | |
| | | | 1 | | | |
| 3 | Circulation Pump: 0,009 kW Lowara ecocirc PRO 15-1/110 U or Equal | no | 1 | | | |
| 4 | All copper class 2 pipework and fittings - insulation, valves, y-strainers, pump fittings, | | | | | |
| | pressure gauges etc. as per the concept design drawings for a complete and fully | | | | | |
| | functioning hot water installation. | sum | 1 | | | |
| 5 | Bluechem corrosion protection for heat pump | no | 1 | | | |
| 6 | Instantanious Water Boiler with connection and fittings | no | 1 | | | |
| 4.2 | All other equipment, not listed, required for a fully working complete system. | sum | 1 | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | |

| ltem | Description | Unit | QTY | Supply Rate | Install Rate | Amount |
|------|--|------|-----|-------------|--------------|--------|
| | | | | | | |
| 1 | Complete set of operation manuals and as-built drawings | sum | 1 | | | |
| 2 | Install and connect the emergency shower (supplied by others) | sum | 0 | | | |
| | Connection of water supply to the following fittings: | | | | | |
| | Laboratory double sink | sum | 0 | | | |
| | Laboratory single sink | sum | 1 | | | |
| | Wash hand basin | sum | 2 | | | |
| 3.4 | Eye showers | sum | 2 | | | |
| 4 | Connection of bottle traps and drainage to the following fittings: | | | | | |
| 4.1 | Laboratory double sink | sum | | | | |
| 4.2 | Laboratory single sink | sum | 1 | | | |
| 4.3 | Wash hand basin | sum | 2 | | | |
| 5 | 12 month maintenance | sum | 1 | | | |
| | | | | | | |



| SUMMARY OF BILLS OF QUANTITIES | | | | | | | | |
|--------------------------------|--|--|---|--|--|--|--|--|
| Item | Description | | | | | | | |
| 2 3 4 | TOTAL FOR SCHEDULE NO. 1 TOTAL FOR SCHEDULE NO. 2 TOTAL FOR SCHEDULE NO. 3 TOTAL FOR SCHEDULE NO. 4 TOTAL FOR SCHEDULE NO. 5 | | | | | | | |
| | TOTAL FOR BILLS OF QUANTITIES (excl. VAT) | | R | | | | | |

| Item | Description | Unit | Rate | Amount | | Sub-Total |
|------|--------------------------------------|------|------|--------|---|-----------|
| | PLUMBING AND DRAINAGE INSTALLATION | | | | | |
| | | | | | | |
| Α | Price Breakdown Schedules No. 1 TO 5 | | | | | |
| | Subtotal | | | | | |
| | | | | | | |
| | | | | | | |
| | Provisional Amounts for : | | | | | |
| В | | | | | | |
| С | | | | | | |
| D | | | | | | |
| Е | | | | | | |
| | Subtotal for B+C+D+E | | | | | |
| | | | | | | |
| | TOTAL NET CONTRACT SUM (excl vat) | | | | | |
| | | | | | R | |

¹ Above Total Net contract sum to be carried forward to Principal Contract Form of Tender

contained in this document.

2 All the rates in this document must be supplied.

3 Above amounts to exclude VAT.



C4021 - CSIR 3457 PHARMA - WET SERVICES - PRICE BREAKDOWN SCHEDULE - SMF

| tem | ese prices shall be firm and not subject to price adjustment) | I I mit | OTV | Cupply Data | Total Cumple | Inotall Bata | Am |
|--------|---|---------|-------|-------------|--------------|--------------|-------|
| tem | Description | Unit | QTY | Supply Rate | Total Supply | Install Rate | Amoun |
| | Work shall comply with the relevant conditions and installation specifications of SANS | | | | | | |
| | 10252-2, manufacturers specifications and local By-laws and Regulations. Contractor | | | | | | |
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| | works, equipment and practices shall be SABS complient and equipment stamped as | | | | | | |
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| | Rates shall include allowance for fixings and bracketing of piping reticulation to walls and soffits. | | | | | | |
| | FOUL SEWER DRAINAGE | | | | | | |
| | | | | | | | |
| 1.1 | Supply and install Geberit HDPE, or equal alternative pipe: | | | | | | |
| 1 | 40mm pipe | m | 7.5 | | | | |
| 2 | | m | 0 | | | | |
| 3 | | m | 40 | | | | |
| 4 | | m | | | | | |
| 5 | 110mm pipe | m | 67 | | | | |
| 6 | 50mm-50mm-50mm 45° branch junction | no | 0 | | | | |
| 7 | | no | 0 | | | | |
| 8 | | no | 10 | | | | |
| 9 | | no | 0 | | | | |
| 10 | | no | 6 | | | | |
| 11 | 75mm-75mm-63mm 45° branch junction | no | 0 | | | | |
| 12 | | no | 4 | | | | |
| 13 | | no | 7 | | | | |
| 13 | 110mm-110mm 40 branding jundadii | 110 | - ' | | | | |
| 14 | 63mm-63mm-63mm-63mm 45° double branch junction | no | 0 | | | | |
| 15 | 40mm 45° bend | no | 12 | | | | |
| 16 | | no | | | | | |
| 17 | 63mm 45° bend | no | 50 | | | | |
| 18 | | no | 16 | | | | |
| 10 | 110mm 40 Bend | 110 | 10 | | | | |
| 19 | | no | 14 | | | | |
| 20 | 63 x 40mm reducer | no | 10 | | | | |
| 21 | 75 x 63mm reducer | no | 0.000 | | | | |
| 22 | 110 x 63mm reducer | no | 0 | | | | |
| 23 | 56mm rodding eye and cap | no | 0 | | | | |
| 24 | 63mm rodding eye and cap | no | 7 | | | | |
| 25 | | no | 0 | | | | |
| | | 1 | | | | | |
| 26 | 75mm screw on stopend & one way vent valve (air admittance valve) | no | 0 | | | | |
| 27 | 63mm HDPE Anti-siphon Bottle Trap | no | 19 | | | | |
| 28 | | no | | | | | |
| 29 | | no | 1 3 | | | | |
| | J 1. J | | | | | | |
| 1.2 | Test drainage installation. | sum | 1 | | | | |
| | | | | | | | |
| | | | | | | | |
| -1 (0 | Chedule No. 1 Carried forward to summary page | | | 1 | | R | |



| Work shall comply with the relevant conditions and installation specifications of SANS 10252-1 manufacturers specifications and local By-laws and Regulations. Sub-Contractor shall issue a certificate of compliance in terms of local By-laws upon completion. All works, explayment and practices shall be SABS compliant and equipment stamped as such. Rates shall include allowance for fixings and bracketing of piping reticulation to walls and soffits. OOLD WATER SUPPLY 2.1 Supply and install Copper class 2, or equal alternative, pipe (outside diameter): 1 15mm pipes | em | se prices shall be firm and not subject to price adjustment) Description | Unit | | Supply Rate | Total Supply | Install Rate | Amoui |
|--|-----|--|------|----|-------------|---------------------|--------------|-------|
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| Supply and install Copper class 2, or equal alternative, pipe (outside diameter): 1 | | | | | | | | |
| and soffits. COLD WATER SUPPLY 2.1 Supply and install Copper class 2, or equal alternative, pipe (outside diameter): 1 15mm pipes | | Rates shall include allowance for fixings and bracketing of piping reticulation to walls | | | | | | |
| 2.1 Supply and install Copper class 2, or equal alternative, pipe (outside diameter): 1 | | | | | | | | |
| 1 15mm pipes | | COLD WATER SUPPLY | | | | | | |
| 2 22mm pipes | 2.1 | Supply and install Copper class 2, or equal alternative, pipe (outside diameter): | | | | | | |
| 3 28mm pipes m 19 4 35mm pipes m 19 2.2 Supply and install DZR Brass fittings: 1 15mm 90° bend no 58 2 22mm y0° bend no 26 3 22 mm x 15 mm reducer no 25 4 28 mm x 22 mm reducer no 3 no 3 no 4 no 4 no 4 no 4 no 4 no 4 | 1 | 15mm pipes | m | 60 | | | | |
| 35mm pipes | | | m | | | | | |
| 2.2 Supply and install DZR Brass fittings: 1 15mm 90° bend | | | | | | | | |
| 1 15mm 90° bend | 4 | 35mm pipes | m | 19 | | | | |
| 2 22mm y 0° bend | 2.2 | Supply and install DZR Brass fittings: | | | | | | |
| 2 22mm y 15 mm reducer | 1 | 15mm 90° bend | no | 58 | | | | |
| 4 28 mm x 22 mm reducer no 3 5 35 mm x 15 mm reducer no 3 6 35 mm x 22 mm reducer no 4 7 35 mm x 22 mm reducer no 1 8 15 x 15 x 15 mm tee junction no 1 8 15 x 15 x 15 mm tee junction no 13 10 28 x 28 x 28mm tee junction no 1 11 35 x 35 x 35mm tee junction no 5 2.3 Supply and install valves including threaded capillary fittings for connection to sanitary fixtures, etc. to copper pipe: no 5 1 15mm stop valve no 1 1 15mm stop valve no 8 3 Air relieve valve no 0 4 25mm Pressure reducing valve with guage no 0 4 25mm Pressure reducing valve with guage no 0 5 35mm Non-return valve no 1 | 2 | 22mm 90° bend | no | 26 | | | | |
| 4 28 mm x 22 mm reducer | 2 | 22 mm v 15 mm roducor | l no | 25 | | | | |
| 5 35 mm x 21 mm reducer no 3 6 35 mm x 22 mm reducer no 4 7 35 mm x 28 mm reducer no 1 8 15 x 15 x 15mm tee junction no 1 8 15 x 15 x 15mm tee junction no 13 9 22 x 22 x 22mm tee junction no 1 10 28 x 28 x 28 mm tee junction no 1 11 35 x 35 x 35mm tee junction no 5 2.3 Supply and install valves including threaded capillary fittings for connection to sanitary fixtures, etc. to copper pipe: no 5 1 15mm stop valve no 17 1 2 22mm stop valve no 8 2 3 Air relieve valve no 0 0 4 Termostatic Mixing Valve no 0 0 4 25mm Pressure reducing valve with guage no 0 0 5 35mm Non-return valve no 1 1 | | | | | | | | |
| 6 35 mm x 22 mm reducer | | | | | | | | |
| 7 35 mm x 28 mm reducer | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | 33 Hill X 23 Hill Toddool | 110 | | | | | |
| 10 28 x 28 x 28mm tee junction | | 15 x 15 x 15mm tee junction | no | | | | | |
| 2.3 Supply and install valves including threaded capillary fittings for connection to sanitary fixtures, etc. to copper pipe: 1 15mm stop valve | 9 | 22 x 22 x 22mm tee junction | no | | | | | |
| 2.3 Supply and install valves including threaded capillary fittings for connection to sanitary fixtures, etc. to copper pipe: 1 15mm stop valve 1 22mm stop valve 1 no 8 3 Air relieve valve 1 no 0 4 Termostatic Mixing Valve 1 no 2 4 25mm Pressure reducing valve with guage 1 no 0 5 35mm Non-return valve 1 connect to existing water supply pipe 2.4 Connect to existing water supply pipe 3 sum 1 | 10 | 28 x 28 x 28mm tee junction | no | | | | | |
| fixtures, etc. to copper pipe: no 17 1 15mm stop valve no 17 2 22mm stop valve no 8 3 Air relieve valve no 0 4 Termostatic Mixing Valve no 2 4 25mm Pressure reducing valve with guage no 0 5 35mm Non-return valve no 1 2.4 Connect to existing water supply pipe sum 1 | 11 | 35 x 35 x 35mm tee junction | no | 5 | | | | |
| fixtures, etc. to copper pipe: 1 | 2.3 | Supply and install valves including threaded capillary fittings for connection to sanitary | | | | | | |
| 2 22mm stop valve no 8 3 Air relieve valve no 0 4 Termostatic Mixing Valve no 2 4 25mm Pressure reducing valve with guage no 0 5 35mm Non-return valve no 1 2.4 Connect to existing water supply pipe sum 1 | | | | | | | | |
| 2 22mm stop valve no 8 3 Air relieve valve no 0 4 Termostatic Mixing Valve no 2 4 25mm Pressure reducing valve with guage no 0 5 35mm Non-return valve no 1 2.4 Connect to existing water supply pipe sum 1 | - 4 | 15mm stop valve | | 17 | | | | |
| 3 Air relieve valve no 0 4 Termostatic Mixing Valve no 2 4 25mm Pressure reducing valve with guage no 0 5 35mm Non-return valve no 1 2.4 Connect to existing water supply pipe sum 1 | | | | | | | | |
| 4 Termostatic Mixing Valve no 2 4 25mm Pressure reducing valve with guage no 0 5 35mm Non-return valve no 1 2.4 Connect to existing water supply pipe sum 1 | | | | | | | | |
| 4 25mm Pressure reducing valve with guage no 0 5 35mm Non-return valve no 1 | | | | | | | | |
| 5 35mm Non-return valve no 1 2.4 Connect to existing water supply pipe sum 1 | - 4 | romosiano iviixing vaive | "" | | | | | |
| 5 35mm Non-return valve no 1 2.4 Connect to existing water supply pipe sum 1 | 4 | 25mm Pressure reducing valve with guage | no | 0 | | | | |
| 2.17 Contract to oxiding water cappy pipe | | | | | | | | |
| 2.17 Contract to oxiding water cappy pipe | | | | | | | | |
| 2.5 Testing of complete installed cold water system. | 2.4 | Connect to existing water supply pipe | sum | 1 | | | | |
| | 2.5 | Testing of complete installed cold water system. | sum | 1 | | | | |
| | | • | | | | | | |



| em | Description | Unit | | Supply Rate | Total Supply | Install Rate | Amount |
|----------|---|----------|-----|-------------|--------------|--------------|--------|
| | Work shall comply with the relevant conditions and installation specifications of SANS 10252-1, manufacturers specifications and local By-laws and Regulations. Sub-Contractor shall issue a certificate of compliance in terms of local By-laws upon completion. All works, equipment and practices shall be SABS compliant and equipment stamped as such. | | | | | | |
| | equipment stamped as such. | | | | | | |
| | Rates shall include allowance for fixings and bracketing of piping reticulation to walls and soffits. | | | | | | |
| | HOT WATER SUPPLY AND RETURN | | | | | | |
| 3.1 | Supply and install insulated Copper class 2, or equal alternative, pipe (outside diameter): | | | | | | |
| 1 | 15mm pipes | m | 131 | | | | |
| 2 | 22mm pipes | m | 15 | | | | |
| 3 | 28mm pipes | m | 0 | | | | |
| 3.2 | Supply and install insulated DZR Brass fittings: | | | | | | |
| 1 | 15mm 90° bend | no | 25 | | | | |
| 2 | 22mm 90° bend | no | 5 | | | | |
| 3 | 22 mm x 15 mm reducer | no | 3 | | | | |
| 4 | 28 mm x 15 mm reducer | no | 4 | | | | |
| 4 | 28 mm x 22 mm reducer | no | 4 | | | | |
| 6 | 15 x 15 x 15mm tee junction | no | 2 | | | | |
| 7 | 22 x 22 x 22mm tee junction | no | 3 | | | | |
| 8 | 28 x 28 x 28mm tee junction | no | 5 | | | | |
| 3.3 | Supply and install valves including threaded capillary fittings for connection to sanitary fixtures, etc. to copper pipe: | | | | | | |
| 1 | 15mm stop valve | no | 6 | | | | |
| 2 | 22mm stop valve | no | 3 | | | | |
| 2 | · | no | 0 | | | | |
| 3 | Air relieve valve | no | 0 | | | | |
| - 4 5 | 15mm Strainer Globe Valve | no no | 0 | | | | |
| | | | | | | | |
| 3.4 | Testing of complete installed hot water system. | sum | 1 | | | | |



| tem | Description | Unit | QTY | Supply Rate | Install Rate | Amount |
|-----|--|------|-----|-------------|--------------|--------|
| | | | | | | |
| 1 | Complete set of operation manuals and as-built drawings | sum | 1 | | | |
| 2 | Install and connect the emergency shower (supplied by others) | sum | 2 | | | |
| | Connection of water supply to the following fittings: | | | | | |
| | Laboratory double sink | sum | 2 | | | |
| | Laboratory single sink | sum | 0 | | | |
| 3.3 | Wash hand basin | sum | 4 | | | |
| 3.4 | Eye showers | sum | 3 | | | |
| 4 | Connection of bottle traps and drainage to the following fittings: | | | | | |
| 4.1 | Laboratory double sink | sum | 2 | | | |
| 4.2 | Laboratory single sink | sum | 4 | | | |
| 4.3 | Wash hand basin | sum | | | | |
| 5 | 12 month maintenance | sum | 1 | | | |



| SUMMARY OF BILLS OF QUANTITIES | | | | | | | | |
|--------------------------------|---|--|---|--|--|--|--|--|
| Item | Description | | | | | | | |
| 2 | TOTAL FOR SCHEDULE NO. 1 TOTAL FOR SCHEDULE NO. 2 TOTAL FOR SCHEDULE NO. 3 TOTAL FOR SCHEDULE NO. 4 | | | | | | | |
| | | | | | | | | |
| | TOTAL FOR BILLS OF QUANTITIES (excl. VAT) | | R | | | | | |

| Item | Description | Unit | Rate | Amount | | | Sub-Total |
|------|--------------------------------------|------|------|--------|---|--|-----------|
| | PLUMBING AND DRAINAGE INSTALLATION | | | | | | |
| | | | | | | | |
| Α | Price Breakdown Schedules No. 1 TO 4 | | | | | | |
| | Subtotal | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | Provisional Amounts for : | | | | | | |
| В | | | | | | | |
| С | | | | | | | |
| D | | | | | | | |
| E | | | | | | | |
| | Subtotal for B+C+D+E | | | | | | |
| | | | | | | | |
| | TOTAL NET CONTRACT SUM (excl vat) | | | | | | |
| | | | | | R | | |

¹ Above Total Net contract sum to be carried forward to Principal Contract Form of Tender

contained in this document.

2 All the rates in this document must be supplied.

3 Above amounts to exclude VAT.



| | Wet Services Bills of Quantities | l l | OANIII SURVEI | |
|------------|---|-----|---------------|--|
| Bill No | | | Amount | |
| 5.7 | Wet Services Bills of Quantities | R | | |
| | Main Contractors percentage for all mark-ups, attendance, etc on specialist domestic contractor | R | | |
| | | | | |
| | Carried Forward To Section 5.10 : Final Summary | R | - | |
| | CSIR Future PHARMA Facility | | | |