SOUTH WEST GAUTENG COLLEGE (SWGC) - LAND IS WEALTH CAMPUS

SECTION 1 - PRELIMINARIES AND GENERAL SECTION 2 - STUDENT ACCOMODATION

SECTION 3 - CAFETERIA

SECTION 4 - SEPTIC TANK

SECTION 5 - SPECIALIST WORKS

SECTION 6 - PROVISIONAL SUMS SECTION 7 - CONTINGENCIES

## SECTION 1 - STUDENT ACCOMODATION

| SECTION 1 - STUDENT ACCOMODATION  |       |          |      |        |  |  |
|---|-------|----------|------|--------|--|--|
| DESCRIPTION   | UNIT  | QUANTITY | RATE | AMOUNT |  |  |
| SECTION 1   | H1    |          |      |        |  |  |
| BILL NO. 1  | H1    |          |      |        |  |  |
| PRELIMINARIES   | H1    |          |      |        |  |  |
|   | - 112 |          |      |        |  |  |
| FIXED CHARGE ITEMS  |       |          |      |        |  |  |
| Contractual requirements.   |       |          |      |        |  |  |
| Insurances  | SUM   | 1        |      |        |  |  |
| Programming   | SUM   | 1        |      |        |  |  |
| Performance Security  | SUM   | 1        |      |        |  |  |
| Retention Guarantee   | SUM   | 1        |      |        |  |  |
|   | 30101 | 1        |      |        |  |  |
| Establishment of Facilities on the Site   |       |          |      |        |  |  |
| Facilities for Engineer_  |       |          |      |        |  |  |
| Equipment for the Engineer's Staff  | SUM   | 1        |      |        |  |  |
| Facilities for Contractor_  | H4    |          |      |        |  |  |
| Offices and Storage Sheds   | SUM   | 1        |      |        |  |  |
|   |       |          |      |        |  |  |
| Workshops   | SUM   | 1        |      |        |  |  |
| Site Establishment  | SUM   | 1        |      |        |  |  |
| Living Accomodation - The Contractor to supply a breakdown of   | SUM   | 1        |      |        |  |  |
| the different categories namley: Supervision, Skilled Labor, Semi Skilled Labour and Unskilled Labour |       |          |      |        |  |  |
| Laboratory Facilities   | SUM   | 1        |      |        |  |  |
| Ablution and Latrine Facilities   | SUM   | 1        |      |        |  |  |
|   |       |          |      |        |  |  |
| Tools and Equipment   | SUM   | 1        |      |        |  |  |
| Water Supplies  | SUM   | 1        |      |        |  |  |
| Electric Power  | SUM   | 1        |      |        |  |  |
| Communication   | SUM   | 1        |      |        |  |  |
| Air Supplies  | SUM   | 1        |      |        |  |  |
|   |       |          |      |        |  |  |
| Dealing with Water  | SUM   | 1        |      |        |  |  |
| Access  | SUM   | 1        |      |        |  |  |
| Facilities Requiring Special Attention  |       |          |      |        |  |  |
| Security  | SUM   | 1        |      |        |  |  |
|   |       |          |      |        |  |  |

| Samples and certification of materials  SUM 1  Testing Authority  SUM 2  Cother Contractors  SUM 1  SUM 1  Cother Contractors  SUM 1  Cother Contractors  SUM 1  Cother Contractors  SUM 1  Cother Contractors  SUM 1  Cothers and Indents  Cothers and Indents  Cothers and Indents  Cothers and Indents  SUM 1  Cother fueld charge deligation - Contractor to submit details  Cother fueld charge deligation - Contractor to submit details  SUM 1  Cother fueld charge deligation - Contractor to submit details  Cother fueld charge deligation - Cothers and Indents  Cother fueld charge deligation - Cothers and Indents  Cother fueld charge deligation - Sum Indents  Cother fueld charge deligation - Cothers and Indents  Cother fueld charge deligation - Cothers and Indents  Cother fueld charge deligation - Cothers and Indents  Cother fueld charge deligation - Sum Indents  Cother fueld charge deligation - Cothers and Indents  Cothers and Summer to completion  SUM 1  Cothers and Summer and Indents  SUM 1  Coth | Safety   | SUM   | 1 |      |
|--|--|-------|---|------|
| Testing Authority 50M 1  |  |       |   |      |
| Characteris   SUM   1  | Samples and certification of materials                       | SUM   | 1 |      |
| Contractor of the Workforce to and from the site  Sing Meetings  Transport on the Site  Sing Meetings  Transport on the Site  Sing Meetings   | Testing Authority  | SUM   | 1 |      |
| Contractor of the Workforce to and from the site  Sing Meetings  Transport on the Site  Sing Meetings  Transport on the Site  Sing Meetings   |  | CULA  |   |      |
| Orders and Indents  SIUM 1  Site Meetings  SUM 1  Fransport or the Works  Supervision for the Workforce to and from the ute  SUM 1  Transport of the Workforce to and from the ute  SUM 1  Transport of the Workforce to and from the ute  SUM 1  Supervision for the duration of the construction  SUM 1  SUM 1  SUM 1  Company and head office overheads costs for the duration of the contract works  SUM 1  Company and head office overheads costs for the duration of the contract works  SUM 1  Company and head office overheads costs for the duration of the contract works  SUM 1  Company and head office overheads costs for the duration of the contract works  Company and head office overheads costs for the duration of the contract works  Company and head office overheads costs for the duration of the contract works  Company and head office overheads costs for the duration of the contract works  Company and head office overheads costs for the duration of the contract works  Company and head office overheads costs for the duration of the contract works  Company and head office overheads costs for the duration of the contract works  Contractual requirements.  SUM 1  Company and head office overheads costs for the duration of the contract works  Contractual requirements.  SUM 1  Company and head office overheads costs for the duration of the contract works  SUM 1  Contractual requirements.  SUM  | Other Contractors  | SUM   | 1 |      |
| Six Meetings   | Quality Assurance  | SUM   | 1 |      |
| Six Meetings   | Orders and Indents   | SHM   | 1 |      |
| Pant for the Works SUM 1 | Orders and macris  | 30141 | 1 |      |
| Transport on the size  SUM 1  Transport of the Workforce to and from the size  SUP 1  Supervision for the duration of the construction  SUM 1  Company and head office overheads costs for the duration of the construction  SUM 1  Company and head office overheads costs for the duration of the contract works  Other fixed charge obligation - Contractor to submit details  SUM 1  Contractual regulation of contractor to submit details  SUM 1  Contractual regulation - Contractor to submit details  SUM 1  Contractual regulation - Contractor to submit details  SUM 1  Contractual regulation - Contractor to submit details  SUM 1  Frequency SUM 1  SUM 1  Frequency SUM 1  SUM 1  Frequency SU | Site Meetings  | SUM   | 1 |      |
| Transport on the size  SUM 1  Transport of the Workforce to and from the size  SUP 1  Supervision for the duration of the construction  SUM 1  Company and head office overheads costs for the duration of the construction  SUM 1  Company and head office overheads costs for the duration of the contract works  Other fixed charge obligation - Contractor to submit details  SUM 1  Contractual regulation of contractor to submit details  SUM 1  Contractual regulation - Contractor to submit details  SUM 1  Contractual regulation - Contractor to submit details  SUM 1  Contractual regulation - Contractor to submit details  SUM 1  Frequency SUM 1  SUM 1  Frequency SUM 1  SUM 1  Frequency SU | Plant for the Works  | SUM   | 1 |      |
| Transport of the Workforce to and from the size  |  |       |   |      |
| Supervision for the duration of the construction  SUM 1   SUM  | Transport on the site  | SUM   | 1 |      |
| Company and head office overheads costs for the duration of the contract works  Other fixed charge obligation - Contractor to submit details  SUM 1  Remove site establishment on completion  VALUE RELATED ITEMS  Contractual requirements.  Insurances  SUM 1  Programming  SUM 1  SUM 1  Programming  SUM 1  Retention Guarantee  SUM 1  Stabilishment of facilities on the Site.  Facilities for Engineer.  Facilities for Contractor  SUM 1  Su | Transport of the Workforce to and from the site              | SUM   | 1 |      |
| Company and head office overheads costs for the duration of the contract works  Other fixed charge obligation - Contractor to submit details  SUM 1  Semove site establishment on completion  VALUE RELATED ITEMS  Contractual requirements.  Insurances  SUM 1  SUM 1  VALUE RELATED ITEMS  Contractual requirements.  Insurances  SUM 1  Programming  SUM 1  SUM 1  SUM 1  Programming  SUM 1  Retention Guarantee  SUM 1  Sum 1  Setablishment of Facilities on the Site  Facilities for Engineer.  Equipment for the Engineer's Staff  SUM 1  Sum  |  |       |   |      |
| the contract works  Other fixed charge obligation - Contractor to submit details  Sum 1  Remove site establishment on completion  VALUE RELATED ITEMS  Contractual requirements.  Insurances  Sum 1  Programming  Sum 1  Performance Security  Sum 1  Retention Guarantee  Sum 1  Stablishment of Facilities on the Site  Facilities for Engineer.  Equipment for the Engineer's Staff  Sum 1  Sum  | Supervision for the duration of the construction             | SUM   | 1 |      |
| Defense charge obligation - Contractor to submit details  SUM 1  Remove site establishment on completion  SUM 1  VALUE RELATED ITEMS  Contractual requirements.  SUM 1  Programming SUM 1  Programming SUM 1  Performance Security SUM 1  Retention Guarantee SUM 1  Establishment of Facilities on the Site  Facilities for Engineer.  Facilities for Engineer  Facilities for Contractor  Offices and Storage Sheds SUM 1  Sire Establishment SUM 1  Sire Establishment SUM 1  Facilities for Contractor  Offices and Storage Sheds SUM 1  Sire Establishment SUM 1  SUM 1  SUM 1  Sire Establishment SUM 1  |  | SUM   | 1 |      |
| Remove site establishment on completion SUM 1 SU | the contract works   |       |   |      |
| Remove site establishment on completion SUM 1 SU | Other fixed charge obligation - Contractor to submit details | SUM   | 1 |      |
| VALUE RELATED ITEMS  Contractual requirements.  Contractual requirements.  Contractual requirements.  SUM 1  Programming  SUM 1  Performance Security  SUM 1  Retention Guarantee  SUM 1  Stablishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  SUM 1  Facilities for Contractor.  Coffices and Storage Sheds  SUM 1  Site Establishment  SUM 1  Site Establishment  SUM 1  Site Gradies and Unskilled Labour  Semi Skilled Labour and Unskilled Labour  Water Supplies  SUM 1  SU |  |       |   |      |
| Contractual requirements.    SUM   1   | Remove site establishment on completion                      | SUM   | 1 |      |
| SUM  | VALUE RELATED ITEMS  |       |   |      |
| SUM  |  |       |   |      |
| Programming SUM 1 Performance Security SUM 1 Retention Guarantee SUM 1 Establishment of Facilities on the Site Sum 1 Equipment for the Engineer's Staff SUM 1 Equipment for the Engineer's Staff SUM 1 Facilities for Contractor Sum 1 Sum | Contractual requirements.                                    |       |   |      |
| Performance Security  SUM 1  Retention Guarantee  SUM 1  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  SUM 1  Facilities for Contractor.  Facilities for Contractor.  Offices and Storage Sheds  SUM 1  Workshops  SILM 1  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Laboratory Facilities  SUM 1  Ablution and Latrine Facilities  SUM 1  Water Supplies  SUM 1   | Insurances   | SUM   | 1 |      |
| Performance Security  SUM 1  Retention Guarantee  SUM 1  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  SUM 1  Facilities for Contractor.  Facilities for Contractor.  Offices and Storage Sheds  SUM 1  Workshops  SILM 1  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Laboratory Facilities  SUM 1  Ablution and Latrine Facilities  SUM 1  Water Supplies  SUM 1   | F  | CULA  | 4 |      |
| Retention Guarantee SUM 1 SUM 1 SUM  | Programming  | SUM   | 1 |      |
| Establishment of Facilities on the Site.  Facilities for Engineer.  Equipment for the Engineer's Staff  SUM 1  Facilities for Contractor.  Offices and Storage Sheds  Workshops  SUM 1  Site Establishment  SUM 1  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Laboratory Facilities  SUM 1  Ablution and Latrine Facilities  SUM 1  SUM 1  Laboratory Facilities  SUM 1  Laboratory Facilities  SUM 1  SUM 1  Laboratory Facilities  SUM 1  SUM 1  Laboratory Facilities  SUM 1  SUM 1  Ablution and Latrine Facilities  SUM 1  SUM 1  SUM 1  SUM 1  Ablution SUM 1   | Performance Security   | SUM   | 1 |      |
| Establishment of Facilities on the Site.  Facilities for Engineer.  Equipment for the Engineer's Staff  SUM 1  Facilities for Contractor.  Offices and Storage Sheds  Workshops  SUM 1  Site Establishment  SUM 1  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Laboratory Facilities  SUM 1  Ablution and Latrine Facilities  SUM 1  SUM 1  Laboratory Facilities  SUM 1  Laboratory Facilities  SUM 1  SUM 1  Laboratory Facilities  SUM 1  SUM 1  Laboratory Facilities  SUM 1  SUM 1  Ablution and Latrine Facilities  SUM 1  SUM 1  SUM 1  SUM 1  Ablution SUM 1   | Potention Guarantee  | CLIM  | 1 |      |
| Facilities for Engineer.  Equipment for the Engineer's Staff  Equipment for the Engineer's Staff  SUM 1  Facilities for Contractor.  Offices and Storage Sheds  SUM 1  Workshops  SUM 1  Living Accommodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Ablution and Latrine Facilities  SUM 1  Ablution and Latrine Facilities  SUM 1  Electric Power  SUM 1  SU | Retention dualance   | JOIVI |   |      |
| Equipment for the Engineer's Stafff SUM 1 SUM 1 SUM 1 SUM STATE ST | Establishment of Facilities on the Site                      |       |   |      |
| Equipment for the Engineer's Stafff SUM 1 SUM 1 SUM 1 SUM STATE ST | Facilities for Engineer                                      |       |   |      |
| Facilities for Contractor  Facilities for Contractor  Offices and Storage Sheds  SUM 1  Workshops  SIUM 1  SUM 1 |  |       |   |      |
| Offices and Storage Sheds SUM 1 Workshops SUM 1 Site Establishment SUM 1 Site Establishment SUM 1 Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor, Semi Skilled Labour and Unskilled Labour Laboratory Facilities SUM 1 Laboratory Facilities SUM 1  | Equipment for the Engineer's Staff                           | SUM   | 1 |      |
| Workshops SUM 1 SU | Facilities for Contractor                                    |       |   |      |
| Workshops SUM 1 SU |  |       |   |      |
| Site Establishment SUM 1 SUM 1 Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor, Semi Skilled Labour and Unskilled Labour Laboratory Facilities SUM 1 Ablution and Latrine Facilities SUM 1 SUM | Offices and Storage Sheds                                    | SUM   | 1 |      |
| Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Laboratory Facilities  SUM 1  Ablution and Latrine Facilities  SUM 1  Ablution and Equipment  SUM 1  Water Supplies  SUM 1  Communication  SUM 1  Air Supplies  SUM 1   | Workshops  | SUM   | 1 |      |
| Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Laboratory Facilities  SUM 1  Ablution and Latrine Facilities  SUM 1  Ablution and Equipment  SUM 1  Water Supplies  SUM 1  Communication  SUM 1  Air Supplies  SUM 1   | Site Establishment   | CLINA | 1 |      |
| the different categories namley: Supervision, Skilled Labor, Semi Skilled Labour and Unskilled Labour  Laboratory Facilities SUM 1   | Site Establishment   | SUM   | 1 |      |
| Semi Skilled Labour and Unskilled Labour  Laboratory Facilities SUM 1 Ablution and Latrine Facilities SUM 1  |  | SUM   | 1 |      |
| Laboratory Facilities SUM 1  |  | 1     |   |      |
| Ablution and Latrine Facilities         SUM         1         Communication         SUM         1         Communication           Ablution and Latrine Facilities         SUM         1         Communication         Communication         SUM         1         Communication         Communication         SUM         1         Communication         Communication         Communication         SUM         1         Communication  | Schill Skilled Edubuli dila Ofiskilled Edubuli               |       |   | <br> |
| Communication   Communicatio   | Laboratory Facilities  | SUM   | 1 |      |
| Communication   Communicatio   | Ablution and Latrine Facilities                              | SUM   | 1 |      |
| Water Supplies         SUM         1         Communication         Communication         SUM         1         Communication         Communication         SUM         1         Communication         Communication         Communication         Communication         SUM         1         Communication         C   |  |       | - |      |
| Communication  | Tools and Equipment  | SUM   | 1 |      |
| Communication  | Water Supplies   | SUM   | 1 |      |
| Communication  |  |       |   |      |
| Air Supplies SUM 1 SUM 1   | Electric Power   | SUM   | 1 |      |
| Air Supplies SUM 1 SUM 1   | Communication  | SUM   | 1 |      |
|  |  |       |   |      |
| Dealing with Water SUM 1   | Air Supplies   | SUM   | 1 |      |
|  | Dealing with Water   | SUM   | 1 |      |

| Access   | SUM                                     | 1                                    |          |
|--|---|--------------------------------------|----------|
| 7.10003  | 33                                      |                                      |          |
| Facilities Requiring Special Attention   |   |                                      |          |
|  |   |                                      |          |
| Security   | SUM                                     | 1                                    |          |
| Safety   | SUM                                     | 1                                    |          |
| Salety   | 30101                                   |                                      |          |
| Samples and certification of materials   | SUM                                     | 1                                    |          |
|  |   |                                      |          |
| Testing Authority  | SUM                                     | 1                                    |          |
| Othor Contractors  | CLINA                                   | 1                                    |          |
| Other Contractors  | SUM                                     | 1                                    |          |
| Quality Assurance  | SUM                                     | 1                                    |          |
|  |   |                                      |          |
| Orders and Indents   | SUM                                     | 1                                    |          |
|  |   |                                      |          |
| Site Meetings  | SUM                                     | 1                                    |          |
| Plant for the Works  | SUM                                     | 1                                    |          |
|  | 20                                      | <del>=</del>                         |          |
| Transport on the site  | SUM                                     | 1                                    | <br>     |
|  |   |                                      | <u> </u> |
| Transport of the Workforce to and from the site  | SUM                                     | 1                                    |          |
| Supervision for the duration of the construction   | SUM                                     | 1                                    |          |
| Supervision of the datation of the solid addition  | 30                                      |                                      |          |
| Company and head office overheads costs for the duration of  | SUM                                     | 1                                    |          |
| the contract works   |   |                                      |          |
|  | CUDA                                    |                                      |          |
| Other value related obligations - Contractor to submit details   | SUM                                     | 1                                    |          |
| Remove site establishment on completion  | SUM                                     | 1                                    |          |
| ·  |   |                                      |          |
| TIME RELATED ITEMS   |   |                                      |          |
| Contractive Lorentz and  |   |                                      |          |
| Contractual requirements.  | +                                       |                                      |          |
|  |   |                                      |          |
| Insurances   | SUM                                     | 1                                    |          |
| Insurances   | SUM                                     | 1                                    |          |
| Insurances Programming   | SUM                                     | 1                                    |          |
| Programming  | SUM                                     | 1                                    |          |
|  |   |                                      |          |
| Programming Performance Security   | SUM                                     | 1                                    |          |
| Programming  | SUM                                     | 1                                    |          |
| Programming Performance Security   | SUM                                     | 1                                    |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  | SUM                                     | 1                                    |          |
| Programming  Performance Security  Retention Guarantee   | SUM                                     | 1                                    |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer   | SUM<br>SUM<br>SUM                       | 1 1 1                                |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  | SUM                                     | 1                                    |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer   | SUM<br>SUM<br>SUM                       | 1 1 1                                |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  | SUM<br>SUM<br>SUM                       | 1 1 1                                |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff   | SUM<br>SUM<br>SUM                       | 1 1 1                                |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds   | SUM SUM SUM SUM                         | 1 1 1                                |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  | SUM<br>SUM<br>SUM                       | 1 1 1                                |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds   | SUM SUM SUM SUM                         | 1 1 1                                |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  | SUM SUM SUM SUM SUM SUM SUM SUM         | 1 1 1 1 1 1                          |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of   | SUM SUM SUM SUM SUM SUM                 | 1 1 1 1                              |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  | SUM SUM SUM SUM SUM SUM SUM SUM         | 1 1 1 1 1 1                          |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of   | SUM SUM SUM SUM SUM SUM SUM SUM         | 1 1 1 1 1 1                          |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  | SUM SUM SUM SUM SUM SUM SUM SUM         | 1 1 1 1 1 1                          |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Laboratory Facilities   | SUM | 1<br>1<br>1<br>1<br>1<br>1           |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  | SUM SUM SUM SUM SUM SUM SUM SUM SUM     | 1 1 1 1 1 1                          |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor, Semi Skilled Labour and Unskilled Labour  Laboratory Facilities  Ablution and Latrine Facilities                       | SUM | 1<br>1<br>1<br>1<br>1<br>1<br>1      |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Laboratory Facilities   | SUM | 1<br>1<br>1<br>1<br>1<br>1           |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor, Semi Skilled Labour and Unskilled Labour  Laboratory Facilities  Ablution and Latrine Facilities                       | SUM | 1<br>1<br>1<br>1<br>1<br>1<br>1      |          |
| Programming  Performance Security  Retention Guarantee  Establishment of Facilities on the Site  Facilities for Engineer  Equipment for the Engineer's Staff  Facilities for Contractor  Offices and Storage Sheds  Workshops  Site Establishment  Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor,  Semi Skilled Labour and Unskilled Labour  Laboratory Facilities  Ablution and Latrine Facilities  Tools and Equipment | SUM | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |          |

| Electric Power  | SUM   | 1 |      |
|---|-------|---|------|
| Electric Fower  | 30111 | - |      |
| Communication   | SUM   | 1 |      |
|   |       |   |      |
| Air Supplies  | SUM   | 1 |      |
| Dealing with Water  | SUM   | 1 |      |
|   |       |   |      |
| Access  | SUM   | 1 |      |
|   |       |   |      |
| Facilities Requiring Special Attention  |       |   |      |
| Security  | SUM   | 1 |      |
| - South,  | 30    | - |      |
| Safety  | SUM   | 1 |      |
|   |       |   |      |
| Samples and certification of materials  | SUM   | 1 |      |
| Testing Authority   | SUM   | 1 |      |
| results Authority   | 30101 |   |      |
| Other Contractors   | SUM   | 1 |      |
|   |       |   |      |
| Quality Assurance   | SUM   | 1 |      |
| Orders and Indents  | CIINA | 4 |      |
| Orders and Indents  | SUM   | 1 |      |
| Site Meetings   | SUM   | 1 |      |
|   |       |   |      |
| Plant for the Works   | SUM   | 1 |      |
|   |       |   |      |
| Transport on the site   | SUM   | 1 |      |
| Transport of the Workforce to and from the site   | SUM   | 1 |      |
| Transport of the workforce to and from the site   | 30101 | 1 |      |
| Supervision for the duration of the construction  | SUM   | 1 |      |
|   |       |   |      |
| Company and head office overheads costs for the duration of                               | SUM   | 1 |      |
| the contract works  |       |   |      |
| Other time related obligation - Contractor to submit details                              | SUM   | 1 |      |
| Other time related obligation Contractor to Submit details                                | 30111 | - |      |
| Remove site establishment on completion   | SUM   | 1 |      |
|   |       |   |      |
| TOTAL- SECTION 1- BILL NO.1 - PRELIMINARIES AND GENERAL                                   |       |   |      |
|   |       |   |      |
|   |       |   |      |
| SECTION NO.2  | H1    |   |      |
|   |       |   |      |
| BUILDING WORKS  | Н3    |   |      |
| PILL NO 1   | 114   |   |      |
| BILL NO.1   | H1    |   |      |
| <u>EARTHWORKS</u>   | H2    |   |      |
|   |       |   |      |
| <u>FOUNDATIONS</u>  | H1    |   |      |
|   |       |   |      |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary           |       |   |      |
| preambles as specified in the Trades.   |       |   |      |
|   |       |   |      |
|   |       |   | <br> |
| SUPPLEMENTARY PREAMBLES   | H2    |   | <br> |
| N   |       |   |      |
| Nature of ground  | H4    |   |      |
| The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but |       |   |      |
| possibly interspersed with "hard rock"  |       |   |      |
|   |       |   |      |
| Excavation for working space in rock  | H4    |   | <br> |
|   |       |   |      |

| H4   |  |   |  |
|------|--|---|--|
|      |  |   |  |
| H4   |  |   |  |
|      |  |   |  |
| H4   |  |   |  |
|      |  |   |  |
| H2   |  |   |  |
| Н3   |  |   |  |
| m2   | 4355   |   |  |
|      | .000   |   |  |
|      |  |   |  |
| m3   | 2400   |   |  |
|      |  |   |  |
| m3   | 2400   |   |  |
| H2   |  |   |  |
| H4   |  |   |  |
| m3   | 1695   |   |  |
| H4   |  |   |  |
| m3   | 170  |   |  |
| m3   | 85   |   |  |
| H4   |  |   |  |
| m3   | 3200   |   |  |
| H4   |  |   |  |
| m2   | 6585   |   |  |
| H4   |  |   |  |
| Item | 1  |   |  |
|      |  |   |  |
|      | 225  |   |  |
|      | 935  |   |  |
| H4   |  |   |  |
| m2   | 565  |   |  |
|      | H4 H4 H4 H4 H4 H3 H3 H3 H4 | H4  H4  H4  H4  H4  H4  H3  M3  2400  H2  H4  M3  1695  H4  M3  170  M3  85  H4  M4  M1  M3  M3  M3  M3  M3  M3  M3  M3  M3 | H4  H4  H4  H4  H4  H3  H2  H3  M3  2400  M3  2400  H2  H4  M3  1695  H4  M3  170  M3  85  H4  M4  M3  170  M3  85  H4  M4  M5  M7  M8  M8  M8  M8  M8  M8  M8  M8  M8 |

| Prescribed density tests on filling  | H4   |      | 1 |
|--|------|------|---|
|  | 114  |      |   |
| Modified AASHTO Density test   | No   | 15   |   |
| SOIL POISONING   | H2   |      |   |
| Soil insecticide   | H4   |      |   |
| 301 HISECUCIUE   | 114  |      |   |
| To bottoms and sides of trenches etc   | m2   | 5570 |   |
| under surface beds   | m2   | 2400 |   |
| CONCRETE, FORMWORK AND REINFORCEMENT   | H2   |      |   |
| CONCRETE, TORRISMORK AND REINFORCEMENT   | 112  |      |   |
| UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES  | H2   |      |   |
| 25MPa/19mm concrete  | H4   |      |   |
| Concrete blinding  | m3   | 30   |   |
|  |      |      |   |
| Strip footings   | m3   | 650  |   |
| 500mm mass concrete  | m3   | 1000 |   |
| Column base  | m3   | 85   |   |
|  |      | - 55 |   |
| Reinforcement  | H4   |      |   |
| 8mm diameter bars  | t    | 95   |   |
| Rebar Programme Rebar Re |      |      |   |
| TEWAL  |      |      |   |
| Y16 Rebar  | t    | 205  |   |
| Fabric reinforcement   | Н4   |      |   |
| Type 395 fabric reinforcement in concrete surface beds   | m2   | 2400 |   |
|  | IIIZ | 2400 |   |
| TEST CUBES   | H2   |      |   |
| Allow for preparing a set of three concrete strength test cubes, each size $150 \times 150 \times 150$ mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.  | Sets | 15   |   |
| BRICKWORK  | H2   |      |   |
|  |      |      |   |
| Brickwork of NFP bricks in class II mortar   | H4   |      |   |
| 220mm brick walls  | m2   | 370  |   |
| 110mm brick walls  | m2   | 85   |   |
| 200-200 high salama  | 2    | 60   |   |
| 300x300mm brick column   | m2   | 60   |   |
| BRICKWORK SUNDRIES   | H2   |      |   |
| Brickwork reinforcement  | H4   |      |   |
| 75mm Wide reinforcement built in horizontally  | m    | 850  |   |
| 7 3 min wide reinforcement built in Horizontally   | m    | 030  |   |
| 150mm Wide reinforcement built in horizontally   | m    | 5290 |   |
| TOTAL SECTION NO.2 - BILL NO.1 - EARTHWORKS  |      |      |   |
|  |      |      |   |
| SECTION NO.2   | H1   |      |   |
| BUILDING WORKS   | H1   |      |   |
|  |      |      |   |
| BILL NO.2  | H1   |      |   |
|  |      |      | • |
| CONCRETE, FORMWORK AND REINFORCEMENT   | H1   |      |   |

| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   |     |      |  |
|---|-----|------|--|
|   |     |      |  |
|   |     |      |  |
| SUPPLEMENTARY PREAMBLES   | H2  |      |  |
| Cost of tests   | H4  |      |  |
|   |     |      |  |
| The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately) |     |      |  |
| Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated  |     |      |  |
| <u>Formwork</u>   | H4  |      |  |
|   |     |      |  |
| Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use   |     |      |  |
| The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself   |     |      |  |
| Formworks to soffits of solid slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described  |     |      |  |
| Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described   |     |      |  |
| Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"                                 |     |      |  |
| PRECAST CONCRETE  | H2  |      |  |
| Concrete lintels  | Н3  |      |  |
|   | 1.5 |      |  |
| 110 x 75mm precast concrete lintels as per the engineers spec.  | m   | 625  |  |
| Turning pieces  | H4  |      |  |
| 230mm Wide turning piece to lintels etc   | m   | 595  |  |
| REINFORCED CONCRETE   | H2  |      |  |
|   |     |      |  |
| 25MPa/19mm concrete   | H4  |      |  |
| Slabs including beams and inverted beams  | m3  | 595  |  |
| Surface beds  | m3  | 720  |  |
| Stairs  | m3  | 85   |  |
| CONCRETE SUNDRIES   | H2  |      |  |
|   |     |      |  |
| Finishing top surfaces of concrete smooth with a wood float   | H4  |      |  |
| Surface beds, slabs, etc  | m2  | 4800 |  |
| FORMWORK  | H2  |      |  |

| ROUGH FORMWORK (DEGREE OF ACCURACY II)   | H2          |      |  |
|--|-------------|------|--|
|  |             |      |  |
| Rough formwork to sides  | Н3          |      |  |
| Edges, risers, ends and reveals not exceeding 300mm high or wide   | m2          | 85   |  |
| 3  |             |      |  |
| SMOOTH FORMWORK (DEGREE OF ACCURACY II)  | H2          |      |  |
| Smooth formwork to soffits   | H4          |      |  |
|  |             |      |  |
| Slabs  | m2          | 2400 |  |
| TEST CUBES   | H2          |      |  |
|  |             |      |  |
| Allow for preparing a set of three concrete strength test cubes, each size $150 \times 150 \times 1$ | Sets        | 15   |  |
| REINFORCEMENT  | H2          |      |  |
|  |             |      |  |
| Mesh reinforcement   | H4          |      |  |
| Type 395 fabric reinforcement in concrete surface beds, slabs,   | m2          | 2400 |  |
|  |             |      |  |
| Mild steel reinforcement to structural concrete work   | H4          |      |  |
| 12mm Diameter bars   | t           | 130  |  |
|  |             |      |  |
| TOTAL SECTION NO.2 - BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT  |             |      |  |
|  |             |      |  |
|  |             |      |  |
| SECTION NO.2   | H1          |      |  |
| BITH DING MODIC  | 114         |      |  |
| BUILDING WORKS   | H1          |      |  |
| BILL NO. 3   | H1          |      |  |
| MASONRY  | H2          |      |  |
| MASONITI   | 112         |      |  |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |             |      |  |
| preambles as specified in the Trades.  |             |      |  |
|  |             |      |  |
|  |             |      |  |
|  | H2          |      |  |
| preambles as specified in the Trades.  |             |      |  |
| preambles as specified in the Trades.  | H2<br>H2    |      |  |
| preambles as specified in the Trades.  |             |      |  |
| SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  | H2          |      |  |
| preambles as specified in the Trades.  | H2          |      |  |
| preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick   | H2<br>H4    |      |  |
| preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and   | H2          |      |  |
| preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick   | H2<br>H4    |      |  |
| SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete   | H2<br>H4    |      |  |
| SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  | H2<br>H4    |      |  |
| BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc   | H2 H4       |      |  |
| SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  | H2 H4       |      |  |
| BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth  | H2 H4       |      |  |
| BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole  Reinforced brick lintels  | H2 H4 H4    |      |  |
| BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole  Reinforced brick lintels  Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be   | H2 H4 H4    |      |  |
| BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole  Reinforced brick lintels  | H2 H4 H4    |      |  |
| BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole  Reinforced brick lintels  Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be   | H2 H4 H4    |      |  |
| preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole  Reinforced brick lintels  Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous   | H2 H4 H4 H4 |      |  |

| <del></del>  |             |       | <u> </u> |
|--|-------------|-------|----------|
| Pointing   | H4          |       |          |
| <u> </u>   |             |       |          |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc   |             |       |          |
| to include square recessed, nonow recessed, weathered pointing, etc  |             |       |          |
| SUPERSTRUCTURE   | H2          |       |          |
| Brickwork of NFP bricks in class II mortar   | H4          |       |          |
| STORMS IN CO. THE STORMS IN CO. CO.  |             |       |          |
| Half brick walls   | m2          | 1356  |          |
| One brick walls  | m2          | 8362  |          |
|  |             |       |          |
| One brick face brick walls   | m2          | 1110  |          |
| Extra over for facebrick walls   | m2          | 6780  |          |
| 200-200  | 2           | 205   |          |
| 300x300mm brick columns  | m2          | 285   |          |
| Brickwork reinforcement  | H4          |       |          |
| 75mm Wide reinforcement built in horizontally  | m           | 5250  |          |
| 7.5.1.11 1713G TOTHOTCCHICHE DUILE IN HOLIZOITEBILY  | m           | J2J0  | <br>     |
| 150mm Wide reinforcement built in horizontally   | m           | 21380 | <br>     |
| NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS   | H2          |       |          |
| ,  |             |       |          |
| Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill  |             |       |          |
| at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.  | Н4          |       |          |
| wan, an in accordance with the manufacturer 3 recommendations.   |             |       |          |
| 15mm x 150mm Wide sills set flat and slightly projecting   | m           | 625   |          |
| TOTAL SECTION NO.2 - BILL NO.3 - MASONRY   |             |       |          |
|  |             |       |          |
|  |             |       |          |
| SECTION NO.2   | H1          |       |          |
| DI III DING WODKS  | 114         |       |          |
| BUILDING WORKS   | H1          |       |          |
| BILL NO.4  | H1          |       |          |
| WATERPROOFING  | H1          |       |          |
|  |             |       |          |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  |             |       |          |
|  |             |       |          |
|  |             |       |          |
| SLIPPI FMENTARY PREAMRIES  | ΗЭ          |       |          |
| SUPPLEMENTARY PREAMBLES  | H2          |       | <br>     |
|  | H2<br>H4    |       |          |
| Waterproofing  | H4          |       |          |
| Waterproofing  |             |       |          |
| Waterproofing  DAMP-PROOFING OF WALLS AND FLOORS   | H4          |       |          |
| Waterproofing  DAMP-PROOFING OF WALLS AND FLOORS  One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course  In walls  | H4<br>H2    | 200   |          |
| Materproofing  DAMP-PROOFING OF WALLS AND FLOORS  One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course  In walls  | H4<br>H2    | 200   |          |
| Waterproofing  DAMP-PROOFING OF WALLS AND FLOORS  One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course  In walls  One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with  | H4 H2 H4 m2 | 200   |          |
| Materproofing  DAMP-PROOFING OF WALLS AND FLOORS  One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course  In walls  | H4<br>H2    | 200   |          |
| Waterproofing  DAMP-PROOFING OF WALLS AND FLOORS  One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course  In walls  One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"  | H4 H2 H4 m2 | 200   |          |
| Materproofing  DAMP-PROOFING OF WALLS AND FLOORS  One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course  In walls  One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"  Under surface beds                            | H4 H2 H4 H4 |       |          |
| Waterproofing  DAMP-PROOFING OF WALLS AND FLOORS  One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course  In walls  One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"  Under surface beds  DAMP-PROOFING ON CONCRETE | H4 H2 H4 m2 |       |          |
| Materproofing  DAMP-PROOFING OF WALLS AND FLOORS  One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course  In walls  One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"  Under surface beds                            | H4 H2 H4 m2 |       |          |

|  | l   |      | T    |
|--|-----|------|------|
| On concrete slab   | m2  | 2400 |      |
|  |     |      |      |
| TOTAL SECTION NO.2 - BILL NO.4 - WATERPROOFING   |     |      |      |
|  |     |      |      |
| CECTION NO. 2  | 111 |      |      |
| SECTION NO.2   | H1  |      |      |
| BUILDING WORKS   | H1  |      |      |
| BILL NO.5  | H1  |      |      |
|  |     |      |      |
| ROOF COVERINGS ETC   | H1  |      |      |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |     |      |      |
| preambles as specified in the Trades.  |     |      |      |
|  |     |      |      |
|  |     |      |      |
| SUPPLEMENTARY PREAMBLES  | H2  |      |      |
| <u>General</u>   | H4  |      | <br> |
| All reaf enterings at a to be with a second of 7075 and a second of 1075 |     |      | <br> |
| All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched   |     |      |      |
| Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with   |     |      |      |
| "Chromadek" silicone polyester paint for exterior use  |     |      |      |
| <u>Sizes</u>   | H4  |      |      |
|  |     |      |      |
| All items are measured net unless otherwise described  |     |      |      |
| Flashings, trimming plates, etc.   | H4  |      |      |
| Prices to include for all cutting and waste and relevant fixing material, unless otherwise   |     |      |      |
| described  |     |      |      |
| All values for flackings being seen as the include for forming duing and along and along the transfer  |     |      |      |
| All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable  |     |      |      |
|  |     |      |      |
| All items are unless otherwise described measured net  |     |      |      |
| PROFILED METAL SHEETING AND ACCESSORIES  | H2  |      |      |
| O FOrms absorbed this is had solvenized matel consumeted 10 F modile year shooting @ 17 F°   |     |      |      |
| 0,58mm chromodek finished galvanised metal corrugated 10.5 profilr roof sheeting @ 17.5°<br>76x50mm S.A. Pine purlins @ 1100mm C/Cs, 900mm end purlins on prefabricated trusses @  |     |      |      |
| 900mm C/Cs, to eng's details and spec  | H4  |      |      |
| Roof covering with pitch not exceeding 50 degrees  | m2  | 3000 |      |
| <u> </u>   |     |      |      |
| Narrow flute closer  | m   | 1500 |      |
| TOTAL SECTION NO.2 - BILL NO.5 - ROOF COVERINGS  |     |      |      |
|  |     |      |      |
|  |     |      |      |
| SECTION NO.2   | H1  |      |      |
| BUILDING WORKS   | H1  |      |      |
| PHI NO C   | U4  |      |      |
| BILL NO.6  | H1  |      |      |
| CARPENTRY AND JOINERY  | H1  |      |      |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |     |      |      |
| preambles as specified in the Trades.  |     |      |      |
|  |     |      |      |
|  |     |      |      |
| SUPPLEMENTARY PREAMBLES  | H2  |      |      |
| Particle board:  | Н3  |      |      |
| <del></del>  |     |      | •    |

| Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type  |     |  |  |
|--|-----|--|--|
|  |     |  |  |
| Joinery:   | H3  |  |  |
| Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc  |     |  |  |
| Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes  |     |  |  |
|  |     |  |  |
| Fixing   | Н3  |  |  |
| Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete  |     |  |  |
| Decorative laminate finish:  | Н3  |  |  |
| Becordive idilimate mish.  | 113 |  |  |
| Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish   |     |  |  |
| PREFABRICATED ROOF TRUSSES   | H2  |  |  |
|  |     |  |  |
| Pre-fabricated metal connected timber roof trusses   | Н3  |  |  |
| All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction   |     |  |  |
| Timb on  | 112 |  |  |
| <u>Timber</u>  | H3  |  |  |
| Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460   |     |  |  |
| Bolts  | Н3  |  |  |
|  |     |  |  |
| Bolts shall be in accordance with BS 4190 or SABS 135  |     |  |  |
| Shear plates, tooth connectors and split rings   | Н3  |  |  |
| The state of the s |     |  |  |
| Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759  |     |  |  |
| <u>Washers</u>   | Н3  |  |  |
| Square or round washers of the following dimensions shall be used with all bolts:  |     |  |  |
| (1)Bolts up to 8mm diameter:   |     |  |  |
|  |     |  |  |
| Washers shall be minimum 25mm wide of minimum 2,50mm thickness   |     |  |  |
| (2)Bolts up to 12mm diameter:  |     |  |  |
| Washers shall be minimum 36mm wide of minimum 4,00mm thickness   |     |  |  |
| Bolts up to 20mm diameter:   |     |  |  |
| (3) Washers shall be minimum 60mm wide of minimum 5,00mm thickness   |     |  |  |
| Metal connector plates   | Н3  |  |  |
|  |     |  |  |
| Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel   |     |  |  |
| The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m2 commercial class hot dipped galvanising as per SABS 934 before stamping  |     |  |  |
| Truss construction   | Н3  |  |  |
|  |     |  |  |
| Trusses shall be constructed in jigs specially designed to unsure the correct profile, overhangs and cambers   |     |  |  |
|  |     |  |  |

|   |    |  | 1 |
|---|----|--|---|
| Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint  |    |  |   |
| <u>Truss design</u>   | НЗ |  |   |
| All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")   |    |  |   |
| <u>Truss spacing</u>  | НЗ |  |   |
| The truss centres shall be less than or equal to that as described in this bill for each respective truss   |    |  |   |
| Truss pitch   | Н3 |  |   |
| The truss pitch shall be as described in this bill for each respective truss type   |    |  |   |
| Truss loading   | НЗ |  |   |
| Trusses shall be designed for a live load of 0,50kN/m2 and dead load as specified under the sub-heading "Specific load specifications for roof trusses"   |    |  |   |
| Shop drawings, design and erection guarantee certificates   | Н3 |  |   |
| It will be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Representative/Agent in respect of the required shop drawings, design and erection guarantee certificates as specified   |    |  |   |
| <u>Dimensions</u>   | Н3 |  |   |
| All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences  |    |  |   |
| <u>Frection</u>   | Н3 |  |   |
| All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer |    |  |   |
| <u>Design system</u>  | НЗ |  |   |
| The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system  |    |  |   |
| However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent  |    |  |   |
| Specific specifications for roof trusses  | Н3 |  |   |
| Unless otherwise described, the following specifications will apply:  |    |  |   |
| (1)All trusses to be with a 10° pitch   |    |  |   |
| (2)The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres   |    |  |   |
| ROOFS   | H2 |  |   |
| The following in plate nailed timber roof truss construction  | H2 |  |   |
| The following is applicable in respect of roof trusses  | H4 |  |   |
| The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes  |    |  |   |
| Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)   |    |  |   |

| Allow for the preparation and submission of the following documents in respect of all  |                                |          |  |
|--|--------------------------------|----------|--|
| buildings  | H4                             |          |  |
|  |                                |          |  |
| ROOF TRUSSES   | Н3                             |          |  |
|  |                                |          |  |
|  |                                |          |  |
| Roof construction to double pitched roof supplied and erected complete in position with  |                                |          |  |
| bracing, gangboarding, purlins, eaves, purlins, hipped end, rafters etc. for approximately 530m2 on plan (Refer to architect's drawings attached to these bills of quantities  | No                             | 5        |  |
| 330112 of plan (Refer to architect's drawings attached to these bills of quantities  | INO                            | <u> </u> |  |
| TIMBER RAFTERS   | H2                             |          |  |
|  |                                |          |  |
| 76x228mm deep grade 5 timber beam under roof installation to   | H4                             |          |  |
| manufacturer's specification   |                                |          |  |
|  |                                |          |  |
| 76x228mm deep beam   | m                              | 649,75   |  |
| TACCIAC & DADCE DOADDC   |                                |          |  |
| FASCIAS & BARGE BOARDS   |                                |          |  |
| 10 x 225mm white everite nutec fascia board  | m                              | 852,5    |  |
| 20 / 225/mil Willie Grand Hatel Hatel Board  |                                | 002,0    |  |
| DOORS, ETC   | H2                             |          |  |
|  |                                |          |  |
| Solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on  |                                |          |  |
| both sides hung to steel frame   | H4                             |          |  |
|  |                                |          |  |
| 40mm single door 813 x 2032mm high   | No                             | 250      |  |
| TOTAL SECTION NO.2 - BILL NO.6 - CAPENTRY AND JOINERY  |                                |          |  |
| TOTAL SECTION NO.2 - BILL NO.6 - CAPENTRY AND JOINERY  |                                |          |  |
|  |                                |          |  |
|  |                                |          |  |
| SECTION NO.2   | H1                             |          |  |
|  |                                |          |  |
| BUILDING WORKS   | H1                             |          |  |
| I  |                                |          |  |
|  |                                |          |  |
| BILL NO.7  | H1                             |          |  |
|  |                                |          |  |
| BILL NO.7  CEILING . ETC.  | H1                             |          |  |
| CEILING , ETC.   |                                |          |  |
|  |                                |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |                                |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |                                |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |                                |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES   | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES   | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or  | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or  | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been  | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal  | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  | H1 H2 H4                       |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been  | H1                             |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  | H1 H2 H4                       |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  | H1 H2 H4                       |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  | H1 H2 H4                       | 1900     |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  | H1 H2 H4                       | 1900     |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  | H1 H2 H4                       | 1900     |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  Cornice  75mm Coved cornices  | H1  H2  H4  H4                 | 1900     |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  Cornice  75mm Coved cornices  | H1  H2  H4  H4                 | 1900     |  |
| CEILING . ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  Cornice  75mm Coved cornices  SUSPENDED CEILINGS  1200 X 600MM Suspended Grid Ceiling with vinyl tiles to spec.   | H1  H2  H4  H4  H1             | 1900     |  |
| CEILING . ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  Cornice  75mm Coved cornices  SUSPENDED CEILINGS  1200 X 600MM Suspended Grid Ceiling with vinyl tiles to spec.  Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of                                      | H1  H2  H4  H4  H1  H2  H4  H4 |          |  |
| CEILING . ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  Cornice  75mm Coved cornices  SUSPENDED CEILINGS  1200 X 600MM Suspended Grid Ceiling with vinyl tiles to spec.   | H1  H2  H4  H4  H1             | 1900     |  |
| CEILING . ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  Cornice  75mm Coved cornices  SUSPENDED CEILINGS  1200 X 600MM Suspended Grid Ceiling with vinyl tiles to spec.  Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | H1  H2  H4  H4  H1  H2  H4  H4 |          |  |
| CEILING . ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  Cornice  75mm Coved cornices  SUSPENDED CEILINGS  1200 X 600MM Suspended Grid Ceiling with vinyl tiles to spec.  Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of                                      | H1  H2  H4  H4  H1  H2  H4  H4 |          |  |
| CEILING , ETC.  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  Descriptions:  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete  Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere  CEILING CONSTRUCTION, CORNICES, ETC.  Cornice  75mm Coved cornices  SUSPENDED CEILINGS  1200 X 600MM Suspended Grid Ceiling with vinyl tiles to spec.  Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails. | H1  H2  H4  H4  H1  H2  H4  H4 |          |  |

| TOTAL SECTION NO.2 - BILL NO.7 - CEILINGS, PARTIONS AND ACCESS FLOORING |     |    |  |
|---|-----|----|--|
|   |     |    |  |
|   |     |    |  |
| SECTION NO.2  | H1  |    |  |
| BUILDING WORK   | H1  |    |  |
| BILL NO.8   | H1  |    |  |
| IRONMONGERY   | H1  |    |  |
| For preambles see "Model Preambles for Trades (2008                     |     |    |  |
| Edition)" and Supplementary preambles as specified in the               |     |    |  |
| Trades.   |     |    |  |
|   |     |    |  |
| SUPPLEMENTARY PREAMBLES   | H2  |    |  |
| Descriptions  | H4  |    |  |
| Items described as "plugged" shall be deemed to include                 |     |    |  |
| screwing to fibre, plastic or metal plugs                               |     |    |  |
| Finishes to ironmongery   | H4  |    |  |
| Where applicable finishes to ironmongery are indicated by               |     |    |  |
| suffixes in accordance with the following list:                         |     |    |  |
| BS Satin bronze lacquered CH Chromium plated                            |     |    |  |
| SC Satin chromium plated  |     |    |  |
|   |     |    |  |
| SE Silver enamelled   |     |    |  |
| GE Grey enamelled   |     |    |  |
| AS Anodised silver  |     |    |  |
| AB Anodised bronze  |     |    |  |
| AG Anodised gold  |     |    |  |
|   |     |    |  |
| ABL Anodised black  |     |    |  |
| PB Polished brass   |     |    |  |
| PL Polished and lacquered   |     |    |  |
| PT Epoxy coated   |     |    |  |
| SD Sanded   |     |    |  |
|   | 112 |    |  |
| LETTERS, NAMEPLATES, ETC  | H2  |    |  |
| "Union"   | Н3  |    |  |
| 150 x 150mm Stainless steel plate engraved with "female" sign           | No  | 30 |  |
| (St/Steel)  |     |    |  |
| 150 x 150mm Stainless steel plate engraved with "male" sign (St/Steel)  | No  | 30 |  |
| 150 x 150mm Stainless steel plate engraved with "paraplegic"            | Nic | 15 |  |
| Sign (St/Steel)   | No  | 15 |  |
| 150 x 150mm Stainless steel plate engraved with electrical              | No  | 15 |  |
| symbol (St/Steel)   |     | -  |  |
| 150 x 150mm Stainless steel plate engraved with "no smoking"            | No  | 30 |  |
| symbol (St/Steel)   |     |    |  |
| 150 x 150mm Stainless steel plate engraved with "no open                | No  | 30 |  |

|  |           |     | T | 1   |
|--|-----------|-----|---|-----|
| fires" symbol (St/Steel)   |           |     |   |     |
| 150 x 150mm Stainless steel plate engraved with "no  | No        | 15  |   |     |
| unauthorised person" symbol (St/Steel)   | 140       | 13  |   |     |
| andanonica person symbol (experce)   |           |     |   |     |
| 150 x 150mm Stainless steel plate engraved with "no littering"   | No        | 30  |   |     |
| symbol (St/Steel)  |           |     |   |     |
|  |           |     |   |     |
| 150 x 150mm Stainless steel plate engraved with a "Fire Hose   | No        | 30  |   |     |
| Reel" sign (St/Steel)  |           |     |   |     |
|  |           |     |   |     |
| 150 x 150mm Stainless steel plate engraved with "Fire  | No        | 30  |   |     |
| Extinguisher" sign (St/Steel)  |           |     |   |     |
| DOOR IRONMONGERY   | H2        |     |   |     |
| <u>BOOK MONWONCENT</u>   | 112       |     |   |     |
| Door stop  | No        | 250 |   |     |
|  |           |     |   |     |
| TOILET ROLL HOLDER   |           |     |   |     |
|  |           |     |   |     |
| Chromium plated (stainless steel polished brass) lockable toilet roll holder, plugged  | No        | 60  |   |     |
|  |           |     |   |     |
| HANDLES  |           |     |   |     |
| Franka Paranlaria Crak Pail 200:000:200mm  | N/        | 4.5 |   |     |
| Franke Paraplegic Grab Rail 300x96x300mm   | No        | 15  |   |     |
| TOTAL - SECTION 2 - BILL 8 - IRONMONGERY   |           |     |   |     |
|  |           |     |   |     |
|  |           |     |   |     |
|  |           |     |   |     |
| SECTION NO.2   | <u>H1</u> |     |   |     |
|  |           |     |   |     |
| BUILDING WORKS   | <u>H1</u> |     |   |     |
| RILL NO. 0   | 114       |     |   |     |
| BILL NO. 9   | <u>H1</u> |     |   |     |
| METALWORK  | H1        |     |   |     |
| WILLIAM TO THE STATE OF THE STA | 1112      |     |   |     |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |           |     |   |     |
| preambles as specified in the Trades.  |           |     |   |     |
|  |           |     |   |     |
|  |           |     |   |     |
|  |           |     |   |     |
| <u>Descriptions</u>  | H4        |     |   |     |
|  |           |     |   |     |
|  |           |     |   |     |
| Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion  |           |     |   |     |
| anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be  |           |     |   |     |
| deemed to exclude the bolts unless otherwise described   |           |     |   |     |
|  |           |     |   |     |
| <u>Drawings</u>  | H4        |     |   |     |
|  |           | -   |   |     |
| Tenderers are referred to architect's drawings annexed to this document for full details of  |           |     |   |     |
| the windows, doors, etc  |           |     |   |     |
| DDECCED CTTFL DOOD FDAMES  |           |     |   |     |
| PRESSED STEEL DOOR FRAMES  | H2        |     |   |     |
| 1,2mm Double rebated frames suitable for one brick walls   | H4        |     |   |     |
| 5 Savie (Sauce Traines Saleage for Otte Brick Walls  | 117       |     |   |     |
| Door frame for door of size 813 x 2032mm high  | No        | 250 |   |     |
|  |           |     |   |     |
| ALUMINIUM WINDOWS, DOORS, ETC  | H2        |     |   |     |
|  |           |     |   |     |
|  |           |     |   |     |
| Doors, windows, etc to be manufactured by an approved firm of specialists, to be of the best   |           |     |   |     |
| boors, windows, etc to be mandractured by an approved min or specialists, to be of the best  |           |     |   |     |
| quality and design truly squared and unless otherwise described, prepared to receive galzing   |           |     |   | i . |
| quality and design truly squared and unless otherwise described, prepared to receive galzing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as  |           |     |   |     |
| quality and design truly squared and unless otherwise described, prepared to receive galzing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible, all angles and   |           |     |   |     |
| quality and design truly squared and unless otherwise described, prepared to receive galzing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible, all angles and intersections to be welded by electric welding, argon or arc welding. A sample window is to   |           |     |   |     |
| quality and design truly squared and unless otherwise described, prepared to receive galzing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible, all angles and intersections to be welded by electric welding, argon or arc welding. A sample window is to be submitted to the Architect for approval before the work is put in hand. The frames   |           |     |   |     |
| quality and design truly squared and unless otherwise described, prepared to receive galzing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible, all angles and intersections to be welded by electric welding, argon or arc welding. A sample window is to   |           |     |   |     |

| They are to be fitted with fixing lugs of 2,8mm aluminium 13mm wide x 100mm long welded   |            |  |  |
|---|------------|--|--|
| to framing, one near each corner and intermediately not more than 300mm apart to sides  |            |  |  |
| top and bottom. Where concrete reveals, etc the frames are to be countersunk holed for and  |            |  |  |
| fitted with the necessary screws at the centres as for the lugs above. Immediately after the  |            |  |  |
| windows, doors, etc, have been delivered on to site, they are to be thouroughly overhauled,   |            |  |  |
| and all necessary adjustment or repairs made before they are fixed in position. Where they  |            |  |  |
| come into contact with brickwork, blockwork, concrete, steel, etc, the framing is to be   |            |  |  |
| treated with bituminuos paint in an approved manner. The windows, doors, etc, are to be   |            |  |  |
| <u>placed in their positions for building in and adjusted to open and close properly and are to be</u>  |            |  |  |
| securely structured to prevent distortation whilst the brickwork and lintols, are being built.  |            |  |  |
| On completion of all other work the windows, doors, are to be adjusted as necessary and   |            |  |  |
| rendered in a complete and satisfactory state of repair and in working order. General. All rates for doors, windows, shopfronts etc, should include for all galzing as specified. Glazing   |            |  |  |
| beads: All door, etc to be fitted with galzing beads, unless otherwise described, mitred at   |            |  |  |
| angles and screwed on. Glass and Glazing: All functional glass must be delivered to site cut  |            |  |  |
| to size and ready for installation and must be classified to indicate grade and thickness.  |            |  |  |
| Labels must remain on each piece of glass until it is glazed, inspected and officially accepted   |            |  |  |
| in writing by the employer, thereafter an insurance letter will follow absolving the contractor   |            |  |  |
| of responsibilty.   |            |  |  |
|   |            |  |  |
| AAAMSA guide  | H4         |  |  |
|   |            |  |  |
| All windows, doors, etc shall comply with and meet the minimum recommended  |            |  |  |
| performance requirements as set out in the General Specification for Architectural  |            |  |  |
| Aluminium and Glass Products (Third Edition) as published by the Association of   |            |  |  |
| Architectural Aluminium Manufacturers of South Africa (AAAMSA) The following  |            |  |  |
| specifications are to be complied with: Aluminium alloy extrusion: BS 1474 Aluminium alloy  |            |  |  |
| Sheets: SANS 903 Anodising: SANS 999 Neoprene performed seals and gaskets: SATM C542  |            |  |  |
| Powder coat finishing: SANS 1274  |            |  |  |
| Finish  | H4         |  |  |
| 111131  |            |  |  |
| The windows, doors, etc shall be natural anodised to a thickness of 25 micron and shall   |            |  |  |
| comply with SABS 999 and 1407   |            |  |  |
|   |            |  |  |
|   |            |  |  |
| Glass   | H4         |  |  |
| Glass   | H4         |  |  |
| Glass Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952.   | H4         |  |  |
| Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part N : Glazing ). Safety glass shall  | H4         |  |  |
| Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part N : Glazing ). Safety glass shall comply with SABS 1263. The National Building Regulations shall be observed with regard to  | H4         |  |  |
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| ALUMINUM WINDOWS  | H2  |      | I | 1 |
|---|-----|------|---|---|
| ALOWINOW WINDOWS  | ПZ  |      |   |   |
| Allow a provisional sum amount of R650 000,00 (Six Hundred and Fifty Thousand Rands) for supply and installation of aluminium windows   | SUM | 1    |   |   |
| ALUMINUM DOORS  | H2  |      |   |   |
| Allow a provisional sum of R350 000,00 (Three Hundred and Fifty Thousand Rands) amount for supply and installation of aluminium doors   | SUM | 1    |   |   |
| <u>STEELWORK</u>  | H2  |      |   |   |
| 50mm Thick stainless steel balustrade sections  | H4  |      |   |   |
| 50mm thick steel sections   | m   | 170  |   |   |
|   |     |      |   |   |
| 10mm flat section bolted to brickwork   | No  | 80   |   |   |
| Extra over 10mm flat section for bolts  | No  | 255  |   |   |
| WALL MOUNTED FOLDING WASHING LINE   |     |      |   |   |
| Supply and installation of the wall mounted folding washing line complete with the powder coated aluminum frame, folding brackets, wires and screws. Wall mounted folding washing line size 26,4m2. | No  | 15   |   |   |
| TOTAL SECTION NO.2 - BILL NO.9 - METALWORKS   |     |      |   |   |
|   |     |      |   |   |
|   |     |      |   |   |
| SECTION NO.2  | H1  |      |   |   |
| BUILDING WORKS  | H1  |      |   |   |
| BILL NO. 10   | H1  |      |   |   |
| PLASTERING  | H1  |      |   |   |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   |     |      |   |   |
|   |     |      |   |   |
| INTERNAL PLASTER  | H2  |      |   |   |
| Cement plaster on brickwork   | H4  |      |   |   |
| On walls  | m2  | 8475 |   |   |
| EXTERNAL PLASTER  | H2  |      |   |   |
| On walls  | m2  | 2660 |   |   |
| CLADDING  |     | -    |   |   |
|   |     | 225  |   |   |
| Cladding to the external walls  | m2  | 290  |   |   |
| TOTAL SECTION NO.2 - BILL NO.10 - PLASTERING  |     |      |   |   |
|   |     |      |   |   |
| SECTION NO.2  | H1  |      |   |   |
| BUILDING WORKS  | H1  |      |   |   |
| BILL NO.11  | H1  |      |   |   |
| TILING  | H1  |      |   |   |
|   |     |      |   |   |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   |     |      |   |   |
|   |     |      |   |   |
|   |     |      |   |   |

| SUPPLEMENTARY PREAMBLES   | H2        |      |  |
|---|-----------|------|--|
|   |           |      |  |
| <u>Descriptions</u>   | H4        |      |  |
| Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding |           |      |  |
| WALL TILING   | H2        |      |  |
| On walls  | m2        | 2715 |  |
| FLOOR TILING  | H2        |      |  |
|   |           |      |  |
| On floors and landings  | m2        | 4700 |  |
| Skirting formed of ceramic tile cut to 300 x 75mm high  | m         | 1900 |  |
| TOTAL SECTION NO.2 - BILL NO.11 - TILING  |           |      |  |
|   |           |      |  |
| SECTION NO.2  | H1        |      |  |
| <u>SECTION NO.2</u>   | 1111      |      |  |
| BUILDING WORK   | <u>H1</u> |      |  |
| BILL NO.12  | <u>H1</u> |      |  |
| DILIMADING AND DRAINAGE   | 114       |      |  |
| PLUMBING AND DRAINAGE   | <u>H1</u> |      |  |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   |           |      |  |
|   |           |      |  |
| SUPPLEMENTARY PREAMBLES   | H2        |      |  |
| Polycop polypropylene pipes:  | Н3        |      |  |
|   |           |      |  |
| Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated   |           |      |  |
| Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions   |           |      |  |
| All pipe diameters are nominal external   |           |      |  |
|   |           |      |  |
| Polylink polypropylene pipes:   | Н3        |      |  |
| Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron<br>"Supraclamp" running joints  |           |      |  |
| Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured  |           |      |  |
| Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers   |           |      |  |
| Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers   |           |      |  |
| Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same  |           |      |  |
| All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions  |           |      |  |
| All pipe diameters are nominal external   |           |      |  |
| Concrete pipes:   | Н3        |      |  |
| ======================================  |           |      |  |

| [a   |          |             |   | 1 |
|--|----------|-------------|---|---|
| Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with   |          |             |   |   |
| rubber rings   |          |             | + | + |
| Vitrified clay pipes:  | Н3       |             |   |   |
|  |          |             |   |   |
| Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut   |          | <del></del> |   |   |
| around joints to enable the jointing to be properly performed or, alternatively, pipes shall be  |          |             |   |   |
| bedded full length on and including unreinforced concrete laid in a semi-dry state   |          |             |   |   |
| immediately before pipes are laid  |          |             |   |   |
|  |          |             |   |   |
| Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings  |          |             |   |   |
|  |          |             |   |   |
| uPVC pipes and fittings:   | Н3       |             |   |   |
|  |          |             |   |   |
| Soil, waste and vent pipes and fittings shall be solvent weld jointed  |          |             | 1 |   |
| UDVC processrs pinor and fittings  | Н3       |             |   |   |
| uPVC pressure pipes and fittings:  | пэ       |             |   |   |
| Pipes for water supply shall be of the class stated  |          |             |   |   |
|  |          |             |   |   |
| Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose   |          |             |   |   |
| sockets and fittings   |          |             |   |   |
|  |          |             | 1 |   |
| Pipes of 50mm diameter and greater shall have sockets and spigots with push in type  |          |             |   |   |
| integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all  |          |             |   |   |
| with similar push-in type joints   |          |             |   |   |
| Copper pipes:  | Н3       |             |   |   |
|  |          |             |   |   |
|  |          |             |   |   |
| Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard   |          |             |   |   |
| drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3   |          |             |   |   |
| (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers.   |          |             |   |   |
| Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and  |          |             |   |   |
| compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply   |          |             |   |   |
| with ISO 2016. Only compression fittings shall be used in walls or in ground   |          |             |   |   |
|  |          |             |   |   |
|  | Н3       |             |   |   |
| Fixing of pipes  | Н3       |             |   |   |
|  | Н3       |             |   |   |
|  | Н3       |             |   |   |
| Fixing of pipes  | Н3       |             |   |   |
| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level   |          |             |   |   |
| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing   | H3       |             |   |   |
| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level   |          |             |   |   |
| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  Lead pipes and fittings  |          |             |   |   |
| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level   |          |             |   |   |
| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  Lead pipes and fittings  |          |             |   |   |
| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  Lead pipes and fittings  All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel  Reducing fittings   | Н3       |             |   |   |
| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  Lead pipes and fittings  All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel  Reducing fittings  Where fittings have reducing ends or branches they are described as "reducing". In the case  | Н3       |             |   |   |
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| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  Lead pipes and fittings  All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel  Reducing fittings  Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the   | Н3       |             |   |   |
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| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  Lead pipes and fittings  All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel  Reducing fittings  Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the   | Н3       |             |   |   |
| Fixing of pipes  Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  Lead pipes and fittings  All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel  Reducing fittings  Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc   | Н3       |             |   |   |
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| Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  Lead pipes and fittings  All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel  Reducing fittings  Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained  Wire gratings  Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings  Septic tanks  Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions  Exposed concrete surfaces  | H3 H3 H3 |             |   |   |
| Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  Lead pipes and fittings  All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel  Reducing fittings  Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained  Wire gratings  Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings  Septic tanks  Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions  Exposed concrete surfaces  Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, | H3 H3 H3 |             |   |   |

| Excavations  | Н3                   |                 |  |
|--|----------------------|-----------------|--|
|  |                      |                 |  |
| No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling   |                      |                 |  |
| the quantity surveyor thereof prior to backnining  |                      |                 |  |
| Soft rock and "hard rock" shall be as defined in "Earthworks"  |                      |                 |  |
| Laving, backfilling, bedding, etc. of pipes  | Н3                   |                 |  |
| Laying, backinning, bedding, etc. or pipes   | 113                  |                 |  |
| Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions   |                      |                 |  |
| Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L: Medium-pressure pipelines LD: Sewers LE: Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding   |                      |                 |  |
| Flush pans   | Н3                   |                 |  |
| Flush pans shall have straight or side outlets and "P" or "S" traps as necessary   |                      |                 |  |
| Stainless steelbasins, sinks, wash troughs, urinals, etc.  | НЗ                   |                 |  |
| Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable   |                      |                 |  |
| Waste unions   | Н3                   |                 |  |
| Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings   |                      |                 |  |
| Steel sectional water tanks  | Н3                   |                 |  |
|  |                      |                 |  |
| Tanks shall comply with SABS CKS 114   |                      |                 |  |
| Tanks shall comply with SABS CKS 114   |                      |                 |  |
| Tanks shall comply with SABS CKS 114  Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.   | Н3                   |                 |  |
|  | Н3                   |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied  | Н3                   |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's   | H3                   |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT   | <u>H2</u>            |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM   | <u>H2</u>            |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT   | <u>H2</u>            |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM   | <u>H2</u>            |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  Pipe to be UPVC Class 34 (Marley or equal)  | H2<br>H2<br>H3       |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  | H2<br>H2             |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  Pipe to be UPVC Class 34 (Marley or equal)  | H2<br>H2<br>H3       | 452             |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  Pipe to be UPVC Class 34 (Marley or equal)  Pipe to be bedded in accordance with SANS 1200LB and SANS 1200 LD   | H2<br>H2<br>H3<br>H4 | 452<br>170      |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  Pipe to be UPVC Class 34 (Marley or equal)  Pipe to be bedded in accordance with SANS 1200LB and SANS 1200 LD   | H2 H3 H4 H4          |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  Pipe to be UPVC Class 34 (Marley or equal)  Pipe to be bedded in accordance with SANS 1200LB and SANS 1200 LD  110 mm Ø piping  | H2 H3 H4 H4 m        |                 |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  Pipe to be UPVC Class 34 (Marley or equal)  Pipe to be bedded in accordance with SANS 1200LB and SANS 1200 LD  110 mm Ø piping  50 mm Ø piping  Extra Over for Fittings   | H2 H3 H4 H4 H4       | 170             |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  Pipe to be UPVC Class 34 (Marley or equal)  Pipe to be bedded in accordance with SANS 1200LB and SANS 1200 LD  110 mm Ø piping  50 mm Ø piping  Extra Over for Fittings  110 mm Ø 45° bends                                 | H2 H3 H4 H4 No       | 170<br>30       |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  Pipe to be UPVC Class 34 (Marley or equal)  Pipe to be bedded in accordance with SANS 1200LB and SANS 1200 LD  110 mm Ø piping  Extra Over for Fittings  110 mm Ø 45° bends  110 mm Ø Y-Junction UYAR42 Ribbed L/S Junction | H2 H3 H4 H4 No       | 30<br>115       |  |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.  Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described  Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc  EQUIPMENT  SEWER SYSTEM  Main Sewer Line - underground  Pipe to be UPVC Class 34 (Marley or equal)  Pipe to be bedded in accordance with SANS 1200LB and SANS 1200 LD  110 mm Ø piping  50 mm Ø piping  Extra Over for Fittings  110 mm Ø 45° bends  110 mm Ø 22,5° bends           | H2 H3 H4 H4 N0 N0    | 30<br>115<br>30 |  |

| - · · · · · · · · · · · · · · · · · · ·  |     |     | 1 |
|--|-----|-----|---|
| Excavation trenches 1m wide X 2,2m deep average (Rate to include for fill and compact in line with SABS 1200 LB                            | No  | 370 |   |
| Brick Manholes constructed in line with SABS 1200LB and SABS 1200 LD c/w step irons, benched to detail, manhole covers and concrete covers | No  | 30  |   |
| benched to detail, maintole covers and concrete covers   | INU | 30  |   |
| Main Sewer Line - above ground   | H4  |     |   |
| Pipe to be UPVC Class 9 in accordance with SANS 10252 Part 2   | H4  |     |   |
| 110 mm Ø piping  | m   | 145 |   |
| 50 mm Ø piping   | m   | 145 |   |
| Extra Over for Fittings  | H4  |     |   |
| 110 mm Ø 45° bends   | No  | 30  |   |
| 110 mm Ø Y-Junction R/S with I.E   | No  | 60  |   |
| 110 mm Ø 22,5° bends   | No  | 30  |   |
| 110 mm g 22,5 benus  | 110 | 30  |   |
| 110 mm Ø I.E on Line   | No  | 60  |   |
| 110 mm ØPipe Hangars c/w threaded bar and double lock-nut  | No  | 145 |   |
| 50 mm ØPipe Hangars c/w threaded bar and double lock-nut   | No  | 115 |   |
| Extra Over for Fittings  | H4  |     |   |
| 50 mm Ø 45° bends  | No  | 30  |   |
| 50 mm Ø Y-Junction   | No  | 60  |   |
| 50 mm Ø glued joint socket   | No  | 145 |   |
| 50 mm Ø 90° bends Incl. I.E  | No  | 115 |   |
| 110 mm Ø one-way vent valve  | No  | 30  |   |
| 50 mm Ø - 110 mm Ø transformer   |     | 60  |   |
| 50 mm μ - 110 mm μ transformer   | No  | 60  |   |
| 110 mm Ø Kimberley Socket tranformation from internal to external piping   | No  | 60  |   |
| 50 mm Ø Back vent to main stack  | No  | 285 |   |
| 110 mm Ø I.E on Line   | No  | 30  |   |
| PVC Weld for underground Pipes   | No  | 60  |   |
| Two Way Vent Valve   | No  | 60  |   |
| STORAGE TANK   | H2  |     |   |
| 27000 litre 2750 dia. X 4800mm High complete on 10m high frame built by structural   |     | 10  |   |
| engineers  | No  | 10  |   |
| <u>GEYSER</u>  | H2  |     |   |
| 200 litre geyser complete with 2kW heat pump located in refuse yard Hot Water system is for the supply of the kitchen area only            | No  | 10  |   |
| RAINWATER DISPOSAL   | H2  |     |   |
| 0,6mm Galvanised sheet iron with "Chromadek" finish on one side  | H4  |     |   |
| 100 x 125mm Eaves gutters with beaded front edge   | m   | 565 |   |
| Extra over eaves gutter for angle  | No  | 115 |   |
| Extra over eaves gutter for stopped end  | No  | 115 |   |
| Extra over eaves gutter for outlet for 100mm diameter pipe   | No  | 115 |   |
| Exact over caves gutter for outlet for 100mm diameter pipe   | 140 | 113 |   |

|   |      |               | T | T |
|---|------|---------------|---|---|
| 100mm Diameter rainwater pipes  | m    | 315           |   |   |
| Extra over rainwater pipe for eaves or plinth offset 450mm projection                       | No   | 115           |   |   |
| Extra over runnwater pipe for cures of pintar onset 450mm projection                        | 110  | 113           |   |   |
| Extra over rainwater pipe for shoe  | No   | 115           |   |   |
|   |      |               |   |   |
| SANITARY PLUMBING   | H2   |               |   |   |
| Extra heavy duty structured wall uPVC sewer pipes to SANS 1601                              | H4   |               |   |   |
| Extra neavy duty structured wan drive sewer pipes to saivs 1001                             | 114  |               |   |   |
| 50MM Pipes  | m    | 115           |   |   |
|   |      |               |   |   |
| 110mm Pipes   | m    | 370           |   |   |
|   |      |               |   |   |
| Extra over extra heavy duty structured wall uPVC sewer pipes to SANS 1601 for fittings      | НЗ   |               |   |   |
| Extra over extra neavy daty structured wan at ve sewer pipes to saits 1001 for intings      | 113  |               |   |   |
| 50mm Access bend  | No   | 115           |   |   |
|   |      |               |   |   |
| 110mm Access bend   | No   | 115           |   |   |
| 50 4 8  |      | 445           |   |   |
| 50mm Junction   | m    | 115           |   |   |
| SANITARY FITTINGS   | H2   |               |   |   |
|   |      |               |   |   |
| <u>Basins</u>   | H4   |               |   |   |
|   |      |               |   |   |
|   |      | 22            |   |   |
| Manufactured of acrylic material (white colour) as per developers prefered choice and range | No   | 80            |   |   |
| Toilets   | H4   |               |   |   |
| Tollets   | 114  |               |   |   |
|   |      |               |   |   |
| Wall-hung (white color) with Gerberit or similar system as per developers prefered choice   | No   | 60            |   |   |
|   |      |               |   |   |
| White vitreous china paraplegic semi close couple boxed suite with purpose made chromium    |      |               |   |   |
| plated side flush lever and purpose made uraa seat  | No   | 15            |   |   |
|   |      |               |   |   |
| <u>Showers</u>  |      |               |   |   |
| RS PRO crome shower heads   | No   | 15            |   |   |
| The time should head  |      | 20            |   |   |
| Acrylic Bath  |      |               |   |   |
|   |      |               |   |   |
| 1700 x 700mm Acrylic type bath with waste outlet, overflow grating with coupling and pair   |      |               |   |   |
| of handles, bedded in position.   | No   | 15            |   |   |
| Kitchen sink  | H4   |               |   |   |
| Michell Sink  | 114  |               |   |   |
| Stainless steel double bowl sink as per developers prefered choice and range                | No   | 15            |   |   |
|   |      | -             |   |   |
| TRAPS ETC   | Н3   |               |   |   |
| ··D/C   | 11.0 |               |   |   |
| uPVC  | H4   |               |   |   |
| 32 x 40mm Reseal "P" or "S" trap  | No   | 1575          |   |   |
|   | 110  | 10,0          |   |   |
| 40mm Reseal "P" or "S" trap   | No   | 850           |   |   |
|   |      | -             |   |   |
| Floor drain to Architect's spec   | No   | 15            |   |   |
| TARC VALVES FTS   | 112  |               |   |   |
| TAPS, VALVES, ETC   | Н3   |               |   | 1 |
| 15mm Brass bib-tap  | No   | 15            |   |   |
| '   |      | _ <del></del> |   |   |
| Chrome plated elbow action basin mixer  | No   | 70            |   |   |
|   |      |               |   |   |
| Chrome plated single lever sink mixer including aerated swivel outlet and mounting kit      |      | 4-5           |   |   |
| complete  | No   | 15            |   |   |
| 15mm Chromium plated pillar tap   | No   | 85            |   |   |
|   |      |               |   |   |
| Wall type bath mixer with diverter and wall mounted hand shower holder including hand       |      |               |   |   |
| shower and hand shower hose   | No   | 115           |   |   |
|   |      |               |   |   |

| Chrome plated single lever underwall bath mixer complete  No 30  Hand shower complete with hand shower rose and shower arm  who will flange with with hand shower rose and shower arm  No 30  Jamm chromium plated angle regulating valve and flexible  No 565  Jamm chromium plated angle regulating valve and flexible  No 565  ARRAS 22 "Masterfor 1" pressure control valve with vacuum  No 170  Dreaker  TOTAL SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  HI   |  |       |      | I | 1 |
|--|--|-------|------|---|---|
| 555mm Chrome plated single lever underwall but mixer complete No. 30 Chrome plated single lever underwall but mixer complete No. 30 Chrome plated single lever underwall but mixer complete No. 30 Chrome plated single lever underwall but mixer complete No. 30 No. | Chrome plated wall type sink mixer including aerated swivel outlet   | No    | 115  |   |   |
| Chrome plated single lever underwall bath mixer complete  No 30  Transf shower complete with hand shower rose and shower arm  Who 30  The shower complete with hand shower rose and shower arm  No 30  To 30  | entitine placed wall type slink mixel including delaced switch outlet  | 140   | 113  |   |   |
| Chrome plated single lever underwall bath moser complete  No 30  Island shower complete with hand shower rose and shower arm with wall flarge  15mm chromium plated angle regulating valve and flexible  No 30  PASS22 "Mosterfo 1" pressure control valve with vacuum broaker  TOTAL SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.13 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.13 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.13 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.3 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - PLUMBING AND DRAINAGE  HILL NO.15 - BILL NO.15 - B | 550mm Chrome plated shower rail set including sliding shower   | No    | 30   |   |   |
| Hand shower complete with hand shower rose and shower arm with wall flange  15-mm chromium plated angle regulating valve and flexible No 565  15-mm chromium plated angle regulating valve and flexible No 565  17-mm chromium plated angle regulating valve and flexible No 565  17-mm chromium plated angle regulating valve and flexible No 565  17-mm chromium plated angle regulating valve and flexible No 170  170  170  170  170  170  170  170  | holder   |       |      |   |   |
| Hand shower complete with hand shower rose and shower arm with wall flange  15-mm chromium plated angle regulating valve and flexible No 565  15-mm chromium plated angle regulating valve and flexible No 565  17-mm chromium plated angle regulating valve and flexible No 565  17-mm chromium plated angle regulating valve and flexible No 565  17-mm chromium plated angle regulating valve and flexible No 170  170  170  170  170  170  170  170  |  |       |      |   |   |
| SECTION NO. 2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 -  | Chrome plated single lever underwall bath mixer complete   | No    | 30   |   |   |
| SECTION NO. 2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  BILL NO.13 - HI - SECTION NO.2 - BILL NO.12 -  | Hand shower complete with hand shower rose and shower arm  | No    | 30   |   |   |
| 15 mm chromium plated angle regulating valve and flexible connection pipe A3.5322 **Maxterifo 1** pressure control valve with vacuum Protaker TOTAL SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  **TOTAL SECTION NO.2 - BILL NO.12 - BIL |  | 140   | 30   |   |   |
| A3-522 "Mosterflo 1" pressure control valve with vacuum breaker  TOTAL SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2  BUILDING WORK  PILL NO.13  FLECTRICAL WORKS  FLECTRICAL WORKS  FLECTRICAL WORKS  FLECTRICAL WORKS  FOR preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as a specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation, electrical telephone and data).  NOTE: Tenderers are advised to study the specifications before pricing the bill.  DISTRIBUTION BOARDS  H2  Supply, Install, test and commission distribution board in the building - Flush mounted.  distribution board cupboards, c/w all switchear and breakes.  No. 10  LID Library Complete installation and install signage to the panels and COC.  Supply cable  Supply, deliver, install, connect, test and commissioning the following external light fittings.  PYPE W1 - Wall mounted builchead LED light fitting with LIM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 2x36W T5 lamps  No. 145  WIRTON EXTERNALL SHAPPING  No. 145  WIRTON EXTERNAL SHAPPING  No. 145  WIRTON EXTERNAL SHAPPING  No. 145  WIRTON EXTERNAL SHAPPING  No. 1921  LISTRIBUTION OF THE PRICE SHAPPING SHAPPING SHAPPING SHAPPING SHAPPING  No. 1921  LISTRIBUTION EXTERNAL SHAPPING  WIRTON EXTERNAL SHAPPING  No. 145  WIRTON EXTERNAL SHAPPING SHAPPIN |  |       |      |   |   |
| PAS-522 "Masterflo 1" pressure control valve with vacuum No 170 breaker  TOTAL SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  H1  BUILDING WORK H1  SELECTRICAL WORKS H1  SELECTRICAL WORKS H1  SELECTRICAL WORKS H1  CRECETRICAL WORKS H1  SELECTRICAL WORKS H1  CRECETRICAL WORKS H1  CRECTRICAL WORKS H1  CRECETRICAL WORKS H1  CRECTRICAL  | 15mm chromium plated angle regulating valve and flexible   | No    | 565  |   |   |
| TOTAL SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2  BILL NO.13  BILL NO.14  BILL NO.15  COMPARISHED SET WITH A SECURITION OF TAKES (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as specified in Pre-trades, (2008 Edition)" and Supplementary presembles as presembles as specified in Pre-trades, (2008 Edition)" and Supplementary presembles as presem | connection pipe  |       |      |   |   |
| TOTAL SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2  BILL NO.13  BILL NO.14  BILL NO.15  COMPARISHED SET WITH A SECURITION OF TAKES (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as especified in Pre-trades, (2008 Edition)" and Supplementary presembles as specified in Pre-trades, (2008 Edition)" and Supplementary presembles as presembles as specified in Pre-trades, (2008 Edition)" and Supplementary presembles as presem |  |       |      |   |   |
| TOTAL SECTION NO.2 - BILL NO.12 - PLUMBING AND DRAINAGE  SECTION NO.2  BUILDING WORK  HI  BUILDING WORK  HI  CECTRICAL WORKS  HI  CECTRICAL WORKS  HI  COPPORTURE OF PRAINTING Trades (2008 Edition)" and Supplementary presembles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary generator power on site during installation for testing and temporary generator power on site during installation for testing and temporary generator power on site during installation for testing and temporary generator power on site during installation for testing and temporary generator power on site during installation for testing and temporary generator power and data).  NOTE: Tenderers are advised to study the specifications before pricing the bill.  DISTRIBUTION BOARDS  H2  DISTRIBUTION BOARDS  H2  DISTRIBUTION BOARDS  H4  AND 10  Label all circuits and install signage to the panels and COC  SUM 1  Label all circuits and install signage to the panels and COC  SUM 1  EXTERNAL LIGHTING  H2  TYPE W1 - Wall mounted bulkhead LED light fitting with LMG die cast and extruded aluminum body and opal acrylic diffuser fitted with LSW LED lamp  NO  145  WIRING & TERMINALS  H3  Supply, deliver, install, connect, test and commissioning the following esternal light fittings:  H4  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  L5, Smm² PVC (insulated conductor)  H5  L5  L5  L5  L5  L5  L5  L5  L5  L5                      |  | No    | 170  |   |   |
| SECTION NO.2  BUILDING WORK  HI  BILL NO.33  HI  ELECTRICAL WORKS  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and data).  NOTE: Tenderers are advised to study the specifications before pricing the bill.  DISTRIBUTION BOARDS  Supply, Install, test and commission distribution board in the building: Flush mounted distribution board supboards, clw all switchgear and breakers.  H4  Label all circuits and install signage to the panels and COC  SUM 1  Supply cable  SUM 1  EXTERNAL LIGHTING  H2  TYPE W1 - Wall mounted builchead LED light fitting with LMG die cast and extruded aluminum body and pair acrylic diffuser fitted with 15W LED lamp  No 145  TYPE FOS - Vapour proof flourescent light fitting, fitted with 15W LED lamp  No 145  WIRNING & TERMINALS  H3  Supply, deliver, install, connect, test and commissioning the following external light fittings:  H4  H4  H5  H6  H7  H7  H7  H7  H7  H7  H7  H7  H7   | breaker  |       |      |   |   |
| SECTION NO.2  BUILDING WORK  HI  BILL NO.33  HI  ELECTRICAL WORKS  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and data).  NOTE: Tenderers are advised to study the specifications before pricing the bill.  DISTRIBUTION BOARDS  Supply, Install, test and commission distribution board in the building: Flush mounted distribution board supboards, clw all switchgear and breakers.  H4  Label all circuits and install signage to the panels and COC  SUM 1  Supply cable  SUM 1  EXTERNAL LIGHTING  H2  TYPE W1 - Wall mounted builchead LED light fitting with LMG die cast and extruded aluminum body and pair acrylic diffuser fitted with 15W LED lamp  No 145  TYPE FOS - Vapour proof flourescent light fitting, fitted with 15W LED lamp  No 145  WIRNING & TERMINALS  H3  Supply, deliver, install, connect, test and commissioning the following external light fittings:  H4  H4  H5  H6  H7  H7  H7  H7  H7  H7  H7  H7  H7   | TOTAL SECTION NO. 2 - BILL NO. 12 - PLUMBING AND DRAINAGE  |       |      |   |   |
| BUILDING WORK  BILL NO.13  BILL NO.15  BIL |  |       |      |   |   |
| BUILDING WORK  BILL NO.13  BILL NO.15  BIL |  |       |      |   |   |
| BUILDING WORK  BILL NO.13  BILL NO.15  BIL |  |       |      |   |   |
| BILL NO.13  BILL NO.15  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and datal,  NOTE: Tenderers are advised to study the specifications before pricing the bill.  BISTRIBUTION BOARDS  Supply, Install, test and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers.  BILL DESTRIBUTION BOARDS  Supply, Install, cast and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers.  BILL DESTRIBUTION BOARDS  Supply cable  SUM 1  EXTERNAL LIGHTING  BILL DESTRIBUTION BOARDS  Supply, deliver, install, connect, test and commissioning the following external light fittings.  BILL DESTRIBUTION BOARDS  Supply, deliver, install, connect, test and commissioning the following external light fittings.  BILL DESTRIBUTION BOARDS  WIRING & TERMINALS  WIRING & TERMINALS  WIRING & TERMINALS  Supply, delivery and installation of Cu Conductors:  BILL DESTRIBUTION BOARDS  BILL DES | SECTION NO.2   | H1    |      |   |   |
| BILL NO.13  BILL NO.15  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and datal,  NOTE: Tenderers are advised to study the specifications before pricing the bill.  BISTRIBUTION BOARDS  Supply, Install, test and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers.  BILL DESTRIBUTION BOARDS  Supply, Install, cast and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers.  BILL DESTRIBUTION BOARDS  Supply cable  SUM 1  EXTERNAL LIGHTING  BILL DESTRIBUTION BOARDS  Supply, deliver, install, connect, test and commissioning the following external light fittings.  BILL DESTRIBUTION BOARDS  Supply, deliver, install, connect, test and commissioning the following external light fittings.  BILL DESTRIBUTION BOARDS  WIRING & TERMINALS  WIRING & TERMINALS  WIRING & TERMINALS  Supply, delivery and installation of Cu Conductors:  BILL DESTRIBUTION BOARDS  BILL DES |  |       |      |   |   |
| FLECTRICAL WORKS  H1  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  H1  NOTE: Tenderers are advised to study the specifications before pricing the bill.  NOTE: Tenderers are advised to study the specifications before pricing the bill.  H2  DISTRIBUTION BOARDS  H2  Supply, Install, test and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers.  H4  BB-A  No  10  Label all circuits and install signage to the panels and COC  SUM  1  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  No  145  H3  TYPE W1 - Wall mounted builkhead LED light fitting with LMG die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  H4  H4  H4  H4  H4  H4  H5  H6  H7  H7  H7  H7  H7  H7  H7  H7  H7   | BUILDING WORK  | H1    |      |   |   |
| FLECTRICAL WORKS  H1  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  H1  NOTE: Tenderers are advised to study the specifications before pricing the bill.  NOTE: Tenderers are advised to study the specifications before pricing the bill.  H2  DISTRIBUTION BOARDS  H2  Supply, Install, test and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers.  H4  BB-A  No  10  Label all circuits and install signage to the panels and COC  SUM  1  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  No  145  H3  TYPE W1 - Wall mounted builkhead LED light fitting with LMG die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  H4  H4  H4  H4  H4  H4  H5  H6  H7  H7  H7  H7  H7  H7  H7  H7  H7   | RIII NO 13   | Н1    |      |   |   |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and data).  NOTE: Tenderers are advised to study the specifications before pricing the bill.  NOTE: Tenderers are advised to study the specifications before pricing the bill.  H4  DISTRIBUTION BOARDS  H2  Supply, Install, test and commission distribution board in the bulding - Flush mounted distribution board cupboards, c/w all switchgear and breakers  H4  BB-A  No 10  Label all circuits and install signage to the panels and COC  SUM 1  Supply cable  SUM 1  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LMG die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  WRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  H4  H4  H4  Supply and delivery  m 1921  Installation m 1921  Installation m 1921  Installation m 1921  | DILL NO.13   | 111   |      |   |   |
| Preambles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and data).  NOTE: Tenderers are advised to study the specifications before pricing the bill.  NOTE: Tenderers are advised to study the specifications before pricing the bill.  PLA  DISTRIBUTION BOARDS  H2  Supply, Install, test and commission distribution board in the bulding - Flush mounted distribution board cupboards, c/w all switchgear and breakers  DB-A  No 10  Label all circuits and install signage to the panels and COC  SUMM 1  Supply cable  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  H4  H4  H5  H6  H7  H7  H7  H7  H7  H7  H7  H7  H7   | ELECTRICAL WORKS   | H1    |      |   |   |
| Preambles as specified in the Trades.  Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and data).  NOTE: Tenderers are advised to study the specifications before pricing the bill.  NOTE: Tenderers are advised to study the specifications before pricing the bill.  PLA  DISTRIBUTION BOARDS  H2  Supply, Install, test and commission distribution board in the bulding - Flush mounted distribution board cupboards, c/w all switchgear and breakers  DB-A  No 10  Label all circuits and install signage to the panels and COC  SUMM 1  Supply cable  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  H4  H4  H5  H6  H7  H7  H7  H7  H7  H7  H7  H7  H7   |  |       |      |   |   |
| Note: Contractor to provide temporary generator power on site during installation for testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and data)  NOTE: Tenderers are advised to study the specifications before pricing the bill.  PISTRIBUTION BOARDS  Supply, Install, test and commission distribution board in the bulding - Flush mounted distribution board cupboards, c/w all switchgear and breakers.  BE-A  NO  NO  NO  NO  NO  NO  NO  NO  NO  N  | For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |       |      |   |   |
| testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and data)  NOTE: Tenderers are advised to study the specifications before pricing the bill.  NOTE: Tenderers are advised to study the specifications before pricing the bill.  H4  DISTRIBUTION BOARDS  H2  Supply, Install, test and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers  DB-A  NO  10  Label all circuits and install signage to the panels and COC  SUM  1  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted builchead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  NO  145  WIRING & TERMINALS  WIRING & TERMINALS  Supply, delivery and installation of Cu Conductors:  H4  H4  LSAMP PVC insulated conductor  Supply and delivery  m 1921  Installation  m 1921  Installation  H4  | preambles as specified in the Trades.  |       |      |   |   |
| testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and data)  NOTE: Tenderers are advised to study the specifications before pricing the bill.  NOTE: Tenderers are advised to study the specifications before pricing the bill.  H4  DISTRIBUTION BOARDS  H2  Supply, Install, test and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers  DB-A  NO  10  Label all circuits and install signage to the panels and COC  SUM  1  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted builchead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  NO  145  WIRING & TERMINALS  WIRING & TERMINALS  Supply, delivery and installation of Cu Conductors:  H4  H4  LSAMP PVC insulated conductor  Supply and delivery  m 1921  Installation  m 1921  Installation  H4  |  |       |      |   |   |
| testing and temporary power supply for the duration of the construction period  Complete installation: Reticulation; electrical, telephone and data)  NOTE: Tenderers are advised to study the specifications before pricing the bill.  NOTE: Tenderers are advised to study the specifications before pricing the bill.  H4  DISTRIBUTION BOARDS  H2  Supply, Install, test and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers  DB-A  NO  10  Label all circuits and install signage to the panels and COC  SUM  1  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted builchead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  NO  145  WIRING & TERMINALS  WIRING & TERMINALS  Supply, delivery and installation of Cu Conductors:  H4  H4  LSAMP PVC insulated conductor  Supply and delivery  m 1921  Installation  m 1921  Installation  H4  | Note: Contractor to provide temperary generator power on cite during installation for  |       |      |   |   |
| Complete installation: Reticulation; electrical, telephone and data)  NOTE: Tenderers are advised to study the specifications before pricing the bill.  DISTRIBUTION BOARDS  Supply, Install, test and commission distribution board in the bulding - Flush mounted distribution board cupboards, c/w all switchgear and breakers.  BB-A  No  10  Label all circuits and install signage to the panels and COC  SUM  1  Supply cable  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No  145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  H4  H5  H6  H7  H7  H7  H7  H7  H7  H7  H7  H7   |  | Н1    |      |   |   |
| NOTE: Tenderers are advised to study the specifications before pricing the bill.  DISTRIBUTION BOARDS  Supply, Install, test and commission distribution board in the bulding - Flush mounted distribution board cupboards, c/w all switchgear and breakers.  DB-A  NO  10  Supply able  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LMG die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  NO  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  H4  H5  H6  H7  H7  H7  H7  H8  H8  H9  H9  H9  H9  H9  H9  H9  H9  | testing and temporary power supply for the duration of the construction period   | 1112  |      |   |   |
| DISTRIBUTION BOARDS  Supply, Install, test and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers  DB-A  No 10  Label all circuits and install signage to the panels and COC  Supply cable  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted builchead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  H4  H5  Supply, delivery and installation of Cu Conductors:  H4  Supply and delivery  m 1921  installation  m 1921  installation  m 1921  2,5mm² bare copper earth wire   | Complete installation: Reticulation; electrical, telephone and data)   | H4    |      |   |   |
| DISTRIBUTION BOARDS  Supply, Install, test and commission distribution board in the building - Flush mounted distribution board cupboards, c/w all switchgear and breakers  DB-A  No 10  Label all circuits and install signage to the panels and COC  Supply cable  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted builchead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  H4  H5  Supply, delivery and installation of Cu Conductors:  H4  Supply and delivery  m 1921  installation  m 1921  installation  m 1921  2,5mm² bare copper earth wire   |  |       |      |   |   |
| Supply, Install, test and commission distribution board in the bulding - Flush mounted distribution board cupboards, c/w all switchgear and breakers  DB-A  No 10  Label all circuits and install signage to the panels and COC  SUM 1  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings.  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No 145  WIRING & TERMINALS  Supply, delivery and installation of Cu Conductors:  144  Supply all delivery  H4  Supply and delivery  m 1921  Installation  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  | NOTE: Tenderers are advised to study the specifications before pricing the bill.   | H4    |      |   |   |
| Supply, Install, test and commission distribution board in the bulding - Flush mounted distribution board cupboards, c/w all switchgear and breakers  DB-A  No 10  Label all circuits and install signage to the panels and COC  SUM 1  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings.  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No 145  WIRING & TERMINALS  Supply, delivery and installation of Cu Conductors:  144  Supply all delivery  H4  Supply and delivery  m 1921  Installation  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  |  |       |      |   |   |
| distribution board cupboards, c/w all switchgear and breakers  DB-A  No 10  Label all circuits and install signage to the panels and COC  SUM 1  EXTERNAL LIGHTING  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  L55  H4  L67  H4  L75  H57  H58  H59  H59  H59  H59  H59  H59  H59  | DISTRIBUTION BOARDS  | H2    |      |   |   |
| distribution board cupboards, c/w all switchgear and breakers  DB-A  No 10  Label all circuits and install signage to the panels and COC  SUM 1  EXTERNAL LIGHTING  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  L55  H4  L67  H4  L75  H57  H58  H59  H59  H59  H59  H59  H59  H59  | Supply Install, test and commission distribution board in the building - Flush mounted   |       |      |   |   |
| DB-A No 10  Label all circuits and install signage to the panels and COC SUM 1  Supply cable SUM 1  EXTERNAL LIGHTING H2  Supply, deliver, install, connect, test and commissioning the following external light fittings H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp No 145  TYPE FO3 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps No 145  WIRING & TERMINALS H3  Supply, delivery and installation of Cu Conductors: H4  2.5mm² PVC insulated conductor  Supply and delivery m 1921  Installation m 1921  Label all circuits and installation of Cu Conductors: H4  Label all circuits and installation m 1921  Label all circuits and installation m 1921  Label all circuits and installation of Cu Conductors: H4  Label all circuits and installation m 1921  Label all circuits and installation m 1921  Label all circuits and installation m 1921  Label all circuits and installation of Cu Conductors: H4  |  | H4    |      |   |   |
| Label all circuits and install signage to the panels and COC  SUM 1  Supply cable SUM 1  EXTERNAL LIGHTING H2  Supply, deliver, install, connect, test and commissioning the following external light fittings H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp No 145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps No 145  WIRING & TERMINALS H3  Supply, delivery and installation of Cu Conductors: H4  Supply and delivery m 1921  Installation m 1921  2.5mm² bare copper earth wire H4   |  |       |      |   |   |
| Supply cable  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No  145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  L5mm² PVC insulated conductor  H4  Supply and delivery  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  | DB-A   | No    | 10   |   |   |
| Supply cable  EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No  145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  L5mm² PVC insulated conductor  H4  Supply and delivery  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  |  |       |      |   |   |
| EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No  145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  2.5mm² PVC insulated conductor  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  H4  | Label all circuits and install signage to the panels and COC   | SUM   | 1    |   |   |
| EXTERNAL LIGHTING  H2  Supply, deliver, install, connect, test and commissioning the following external light fittings  H4  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No  145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  2.5mm² PVC insulated conductor  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  H4  | Cunnity cobio  | CLINA | 1    |   |   |
| Supply, deliver, install, connect, test and commissioning the following external light fittings  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No  145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  2.5mm² PVC insulated conductor  Installation  m 1921  Installation  H4  L5  L5  L5  L6  L7  L7  L7  L7  L7  L7  L7  L7  L7  | Supply Cable   | SUIVI | 1    |   |   |
| Supply, deliver, install, connect, test and commissioning the following external light fittings  TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No  145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No  145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  2.5mm² PVC insulated conductor  Installation  m 1921  Installation  H4  L5  L5  L5  L6  L7  L7  L7  L7  L7  L7  L7  L7  L7  | EXTERNAL LIGHTING  | H2    |      |   |   |
| TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  Supply and delivery  m 1921  Installation  m 1921  Linstallation  m 1921   |  |       |      |   |   |
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| aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  2.5mm² PVC insulated conductor  Buply and delivery  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  H4   | Supply, deliver, install, connect, test and commissioning the following external light fittings  | H4    |      |   |   |
| aluminium body and opal acrylic diffuser fitted with 15W LED lamp  No 145  TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  2.5mm² PVC insulated conductor  Buply and delivery  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  H4   | TOPENS WILL ALL HE LESS TO SELECTION OF THE SELECTION OF  |       |      |   |   |
| TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps  No 145  WIRING & TERMINALS  H3  Supply, delivery and installation of Cu Conductors:  H4  2.5mm² PVC insulated conductor  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  H4  |  | Al -  | 445  |   |   |
| WIRING & TERMINALS  Supply, delivery and installation of Cu Conductors:  H4  2.5mm² PVC insulated conductor  H4  Supply and delivery  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  H4  | anunninum body and opai acrylic diffuser fitted with 15W LED lamp  | INO   | 145  |   |   |
| WIRING & TERMINALS  Supply, delivery and installation of Cu Conductors:  H4  2.5mm² PVC insulated conductor  H4  Supply and delivery  m 1921  Installation  m 1921  2.5mm² bare copper earth wire  H4  | TYPE FO3 - Vanour proof flourescent light fitting fitted with 2v36W T5 lamps   | Nο    | 145  |   |   |
| Supply, delivery and installation of Cu Conductors:  2.5mm² PVC insulated conductor  H4  Supply and delivery  m 1921  Installation m 1921  2.5mm² bare copper earth wire  H4   | The state of the s | 110   | 173  |   |   |
| 2,5mm² PVC insulated conductor  Supply and delivery  m 1921  Installation m 1921  2,5mm² bare copper earth wire  H4  | WIRING & TERMINALS   | Н3    |      |   |   |
| 2,5mm² PVC insulated conductor  Supply and delivery  m 1921  Installation m 1921  2,5mm² bare copper earth wire  H4  |  |       |      |   |   |
| Supply and delivery   m   1921   | Supply, delivery and installation of Cu Conductors:  | H4    |      |   |   |
| Supply and delivery   m   1921   |  |       |      |   |   |
| Installation m 1921  2,5mm² bare copper earth wire H4  | 2.5mm* PVC insulated conductor   | H4    |      |   |   |
| Installation m 1921  2,5mm² bare copper earth wire H4  | Supply and delivery  | m     | 1971 |   |   |
| 2,5mm² bare copper earth wire H4   | σαρρή απα αυπνοί γ   | - 111 | 1321 |   |   |
| 2,5mm² bare copper earth wire H4   | Installation   | m     | 1921 |   |   |
|  |  |       |      |   |   |
| Supply and delivery m 2000 5   | - 21   | НΔ    |      |   |   |
| Supply and delivery  | 2,5mm² bare copper earth wire  | 1117  |      |   |   |
| Suppr, Since desirer, 111   2000,5   |  |       |      |   |   |

|  |     |        | Ī |  |
|--|-----|--------|---|--|
| Installation   | m   | 2090,5 |   |  |
| Day Light switch   | H4  |        |   |  |
|  |     |        |   |  |
| Supply and installation  | No  | 10     |   |  |
| LIGHTING INSTALLATIONS   | H2  |        |   |  |
| WIREWAYS   | H3  |        |   |  |
|  |     |        |   |  |
| Supply and Install Trunking  | H4  |        |   |  |
| Supply and install P8000 trunking suspended from slab and trusses in ceiling void.   | H4  |        |   |  |
| Supply and delivery  | m   | 310,75 |   |  |
| Installation   | m   | 310,75 |   |  |
|  | 111 | 310,73 |   |  |
| Supply, delivery and installation of PVC conduits, surface mounted in ceiling voids and fixed to walls or cast-in or built into walls, including all fixing materials, bends, terminations, draw boxes, etc. | H4  |        |   |  |
| 20mm diameter  | H4  |        |   |  |
|  | 114 |        |   |  |
| Supply and delivery  | m   | 1130   |   |  |
| Installation   | m   | 1130   |   |  |
| Supply, delivery and installation of Conduit outlets boxes c/w locknuts and bushes built into  |     |        |   |  |
| brick or cast into concrete or surface mounted   | H4  |        |   |  |
| 100 x 50 x 50 mm, c/w applicable cover   | H4  |        |   |  |
|  |     |        |   |  |
| Supply and delivery  | No  | 400    |   |  |
| Installation   | No  | 400    |   |  |
| 65mm round box, c/w cover  |     |        |   |  |
| Supply and delivery  | No  | 115    |   |  |
| Supply and derivery  | NO  | 113    |   |  |
| Installation   | No  | 115    |   |  |
| <u>ACCESSORIES</u>   | Н3  |        |   |  |
| Supply, deliver and install accessories to boxes   | H4  |        |   |  |
|  |     |        |   |  |
| 5A, 3-pin socket outlets to trunking   | No  | 85     |   |  |
| WIRING & TERMINALS   | Н3  |        |   |  |
| Supply, delivery and installation of Cu Conductors:  | H4  |        |   |  |
| 1,5mm² PVC insulated conductor   | H4  |        |   |  |
|  | 114 |        |   |  |
| Supply and delivery  | m   | 2203,5 |   |  |
| Installation   | m   | 2203,5 |   |  |
| 2,5mm² bare copper earth wire  | H4  |        |   |  |
|  |     | 400:   |   |  |
| Supply and delivery  | m   | 1921   |   |  |
| Installation   | m   | 1921   |   |  |
| <u>LIGHT FITTINGS</u>  | Н3  |        |   |  |
| Supply, deliver, install, connect, test and commissioning the following light fittings   | H4  |        |   |  |
|  | 114 |        |   |  |
| TYPE F01 - 1200x300mm surface mounted flourescent light fitting  | No  | 170    |   |  |
| TYPE C1 - 230V 103mm diameter LED downlight ceiling recessed Die-cast aluminium body   |     |        |   |  |
| with acrylic lens(8w cool white)   | No  | 170    |   |  |

| TYPE F02 - Open channel flourecscent light fitting   | No  | 115  |      |
|--|-----|------|------|
| Supply, deliver, install, connect, test and commissioning of Sensors   | H4  |      |      |
| Supply, deliver, ilistali, conflect, test and confinissioning of Sensors   | 114 |      |      |
| Supply, deliver, install, connect, test and commissioning occupancy sensors  | H4  |      |      |
| WSD PDT  | No  | 113  |      |
| Adaptors 5 Amp 2 Way   | No  | 60   |      |
|  |     |      |      |
| Adaptors 5 Amp 4 Way   | No  | 60   |      |
| SMALL POWER INSTALLATION   | H2  |      |      |
| WIREWAYS   | Н3  |      |      |
| Supply, delivery and installation of PVC conduits, surface mounted in ceiling voids and fixed  |     |      |      |
| to walls or cast-in or built into walls, including all fixing materials, bends, terminations, draw   |     |      |      |
| boxes, etc.  | H4  |      |      |
| 20mm diameter  | H4  |      |      |
| Supply and delivery  | m   | 1130 |      |
|  |     |      |      |
| Installation   | m   | 1130 |      |
| Supply and install conduit droppers chased or built into wall, consisting of 3 x 25mm dia & 2 x  |     |      |      |
| 20mm dia from wire basket & trunking in ceiling void to power skirting c/w 1.6mm draw wires  | No  | 60   |      |
| Creative delivery and installation of Conduit authors have a full polymer and bushes built into  |     |      |      |
| Supply, delivery and installation of Conduit outlets boxes c/w locknuts and bushes built into brick or cast into concrete or surface mounted, c/w applicable cover | H4  |      |      |
| 100 v 100 v E0 mm  | шл  |      |      |
| 100 x 100 x 50 mm  | H4  |      |      |
| Supply and delivery  | No  | 170  |      |
| Installation   | No  | 170  |      |
|  |     |      |      |
| Supply, deliver and installation of the 1 compartment, 1 cover Midland power skirting  |     |      |      |
| complete with all accessories including internal/external bends, end caps etc.   | H4  |      |      |
| as per ground floor drawing  | m   | 1430 |      |
| Supply and Install Trunking  | H4  |      |      |
|  |     |      |      |
| Supply and install 5A 3 pin power trunking suspended from slab and trusses in ceiling void.  | H4  |      |      |
| Supply and delivery  | No  | 170  |      |
| Installation   | No  | 170  |      |
| Supply, delivery and installation of socket outlets  | H4  |      |      |
|  |     |      |      |
| 16 A, 3-pin standard white SSO   | H4  |      |      |
| Flush Mounted  | No  | 85   |      |
| Power skirting mounted   | No  | 85   |      |
|  |     |      |      |
| 16 A, 3-pin double white SSO   | H4  |      |      |
| Flush Mounted  | No  | 85   |      |
| 16 A, 3-pin dedicated red SSO  | H4  |      | <br> |
| Power skirting mounted, 45 degree (including plug top)   | No  | 85   | <br> |
| r ower skirking mounted, 45 degree (michaling plug top)  | INU | 63   |      |
| Supply and installation of power skirting accessories  | H4  |      |      |
| Blank cover plate suitable for RJ 11 telephone outlet  | No  | 115  |      |
|  |     |      | Ī    |

| WIRING & TERMINALS   | Н3        |      |   |  |
|--|-----------|------|---|--|
| Supply, Deliver and installation of Cu Conductors:   | H4        |      |   |  |
|  | 114       |      |   |  |
| 2.5mm² PVC insulated conductor   | H4        |      |   |  |
| Supply and delivery  | m         | 1925 |   |  |
| Installation   | m         | 1925 |   |  |
|  |           |      |   |  |
| 2.5mm² bare copper earth wire  | H4        |      |   |  |
| Supply and delivery  | m         | 680  |   |  |
| Installation   | m         | 680  |   |  |
| PROVISIONAL SUMS   | H2        |      |   |  |
|  |           |      |   |  |
| Provisional Sums exclude the cost of Overheads, Preliminaries and Profit   |           |      |   |  |
| Provisional Sums:  | Н4        |      |   |  |
| Allow a provisional sum amount of R65 000,00 (Sixty Five Thousand Rands) for the Eskom   |           |      |   |  |
| connection   | SUM       | 1    |   |  |
| TOTAL SECTION NO.2 - BILL NO.13 - ELECTRICAL WORKS   |           |      |   |  |
|  |           |      |   |  |
|  |           |      |   |  |
| SECTION NO.2   | <u>H1</u> |      |   |  |
| BUILDING WORKS   | <u>H1</u> |      |   |  |
| DILL NO. 44  | 114       |      |   |  |
| BILL NO. 14  | <u>H1</u> |      |   |  |
| GLAZING  | <u>H1</u> |      |   |  |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  |           |      |   |  |
|  |           |      |   |  |
|  |           |      |   |  |
| TOPS, SHELVES, DOORS, MIRRORS, ETC   | H2        |      |   |  |
| 4mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete | Н3        |      |   |  |
|  |           |      |   |  |
| Mirror 400 x 600mm high with four (4) screws   | No        | 95   |   |  |
| TOTAL SECTION NO.2 - BILL NO.14 - GLAZING  |           |      |   |  |
|  |           |      |   |  |
| SECTION NO. 2  | U4        |      |   |  |
| SECTION NO.2   | <u>H1</u> |      |   |  |
| BUILDING WORKS   | <u>H1</u> |      |   |  |
| BILL NO. 15  | <u>H1</u> |      |   |  |
| PAINTWORK  | <u>H1</u> |      |   |  |
|  | - 114     |      |   |  |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  |           |      |   |  |
|  |           |      |   |  |
| PAINTWORK ETC TO NEW WORK  | H2        | -    | - |  |
| FAIRTI WORK ETC TO NEW WORK  | ПΖ        |      |   |  |
| ON FLOATED PLASTER   | H2        |      |   |  |

| Plascon Polvin Super Acrylic to interior new cement plaster (NW 205). Surface to be dry,  |             |         |  |
|---|-------------|---------|--|
| sound and clean and cured for a minimum of 14 days, with a moisture content measured  |             |         |  |
|   |             |         |  |
| with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of   |             |         |  |
| <u>Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two</u>  |             |         |  |
| coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance  |             |         |  |
| cycle of 5 years in a C1 - inland environment.  | H4          |         |  |
|   |             |         |  |
| On external plastered walls   | m2          | 2660    |  |
| on external plastered walls   | 1112        | 2000    |  |
| On internal plantage durally  | 2           | 0.475   |  |
| On internal plastered walls   | m2          | 8475    |  |
|   |             |         |  |
| ON CEILING BOARDS   |             |         |  |
|   |             |         |  |
| On ceiling  | m2          | 2230    |  |
|   |             |         |  |
| On cornice  | m2          | 1840    |  |
| Officernice   | IIIZ        | 1040    |  |
|   |             |         |  |
| ON SMOOTH CONCRETE  | H2          |         |  |
|   |             |         |  |
| Prepare surfaces and remove all loose material, and rinse. Apply flexible crackfiller to  |             |         |  |
| holes and cracks, one coat plaster primer and two coats Plascon Professional Copolymer  |             |         |  |
| Acrylic paint   | Н3          |         |  |
|   |             |         |  |
| On reffits of commute state   | 2           | 2244.75 |  |
| On soffits of concrete slabs  | m2          | 2344,75 |  |
|   |             |         |  |
| Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174). Surface to be dry,  |             |         |  |
| sound and clean, with a moisture content, measured with a Doser Hygrometer (or  |             |         |  |
| · · · · · · · · · · · · · · · · · · ·   |             |         |  |
| equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56)  |             |         |  |
| with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel  |             |         |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 -   |             |         |  |
| inland environment.   | H4          |         |  |
|   |             |         |  |
| On fascias and barge boards   | m2          | 852,5   |  |
| on rabida and bange boards  |             | 002,0   |  |
|   |             |         |  |
| Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274). Surface to be dry,  |             |         |  |
| sound and clean, with a moisture content, measured with a Doser Hygrometer (or  |             |         |  |
| equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56)  |             |         |  |
| <u> </u>  |             |         |  |
| with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Fnamel  |             |         |  |
| with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel  |             |         |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 -   | шл          |         |  |
|   | H4          |         |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.   |             |         |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 -   | H4<br>m     | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.   |             | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.   |             | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth   | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth   | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry.  | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or  | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust  | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire  | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of  | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire  | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of  | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats,  | m           | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours  | m<br>H2     | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  | т<br>Н2     |         |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats,  | m<br>H2     | 621,5   |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  | т<br>Н2     |         |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  | H2 H4 m2    | 1182,5  |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  | т<br>Н2     |         |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  | H2 H4 m2    | 1182,5  |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  | H2 H4 m2    | 1182,5  |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )  | H2 H4 m2    | 1182,5  |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  | H2 H4 m2    | 1182,5  |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )  On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high        | H2 H4 m2 m2 | 1182,5  |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )  | H2 H4 m2    | 1182,5  |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )  On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high        | H2 H4 m2 m2 | 1182,5  |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  ON METAL  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )  On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high        | H2 H4 m2 m2 | 1182,5  |  |
| (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1-inland environment.  On window sills not exceeding 300 mm girth  Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.  On door frames  On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )  On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high  On roof sheeting | H2 H4 m2 m2 | 1182,5  |  |

|  |       | l I      |      |        |
|--|-------|----------|------|--------|
| Plascon Velvaglo Satin to interior new wood (NW 571). Surface to be dry, sound and clean.  Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot  Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated          |       |          |      |        |
| within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an  |       |          |      |        |
| overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours   |       |          |      |        |
| drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.  | H4    |          |      |        |
| Three coats matt varnish   | H4    |          |      |        |
| On doors   | m2    | 412,5    |      |        |
| TOTAL SECTION NO.2 - BILL NO.15 - PAINTWORK  |       |          |      |        |
|  |       |          |      |        |
| SECTION 2 - STUDENT ACCOMODATION - TOTAL EXCLUDIN  | G VAT | ı        |      |        |
| SECTION 3 - CAFETERIA  |       |          |      |        |
| DESCRIPTION  | UNIT  | QUANTITY | RATE | AMOUNT |
| SECTION NO.3   | H1    |          |      |        |
| BUILDING WORKS   | Н3    |          |      |        |
| BILL NO.1  | H1    |          |      |        |
|  |       |          |      |        |
| <u>EARTHWORKS</u>  | H2    |          |      |        |
| FOUNDATIONS  | H1    |          |      |        |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  |       |          |      |        |
|  |       |          |      |        |
| SUPPLEMENTARY PREAMBLES  | H2    |          |      |        |
| Nature of ground   | H4    |          |      |        |
| The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"   |       |          |      |        |
| Excavation for working space in rock   | H4    |          |      |        |
| Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be      |       |          |      |        |
| Carting away of excavated material   | H4    |          |      |        |
| Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site   |       |          |      |        |
| Filling  | H4    |          |      |        |
|  |       |          |      |        |
| Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material                                     |       |          |      |        |
| Soil poisoning   | H4    |          |      |        |
| Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent |       |          |      |        |
| SITE CLEARANCE, ETC.   | H2    |          |      |        |
| Site clearance   | Н3    |          |      |        |
|  |       |          |      | •      |

|   |      |        | T | т —          |
|---|------|--------|---|--------------|
| Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding |      |        |   |              |
| 200mm girth, bush, etc.   | m2   | 841    |   |              |
| 200mm girti, busi, etc.   | 1112 | 041    |   | +            |
| EXCAVATION, FILLING, ETC  | H2   |        |   |              |
|   |      |        |   |              |
| Excavation in earth not exceeding 2m deep   | H4   |        |   |              |
|   |      |        |   | <del> </del> |
| Trenches  | m3   | 319    |   | -            |
| Extra over trench and hole excavations in earth for excavation in                           | H4   |        |   | _            |
| Extra over tremen and note excavations in earth for excavation in                           |      |        |   | +            |
| Soft rock   | m3   | 43,5   |   | 1            |
|   |      |        |   |              |
| Hard rock   | m3   | 29     |   |              |
|   |      |        |   | _            |
| Extra over all excavations for carting away   | H4   |        |   | -            |
|   |      |        |   | +            |
| Surplus material from excavations on site to a dumping site to be located by the contractor | m3   | 159,5  |   |              |
| ,   |      | ,      |   | 1            |
| Risk of collapse of excavations   | H4   |        |   |              |
|   |      |        |   |              |
| Sides of trench and hole excavations not exceeding 1,5m deep                                | m2   | 797,5  |   |              |
| Keeping excavations free of water   | H4   |        |   |              |
| veehiik evrangriouz ii.ee oi marei  | П4   |        |   | +            |
| Keeping excavations free of all water other than subterranean water                         | Item | 1      |   |              |
|   |      | _      |   |              |
| Backfilling to trenches   | Н3   |        |   |              |
|   |      |        |   |              |
| Backfilling to trenches, holes, etc   | m3   | 188,5  |   |              |
| Comment of surfaces   | 114  |        |   |              |
| Compaction of surfaces  | H4   |        |   | +            |
| Compaction of ground surface under floors etc including scarifying for a depth of 150mm,    |      |        |   |              |
| breaking down oversize material, adding suitable material where necessary and compacting    |      |        |   |              |
| to 93% Mod AASHTO density   | m2   | 116    |   |              |
|   |      |        |   |              |
| Prescribed density tests on filling   | H4   |        |   |              |
| 100 100 100 100 100 100 100 100 100 100   |      |        |   |              |
| Modified AASHTO Density test  | No   | 3      |   |              |
| SOIL POISONING  | H2   |        |   | +            |
| <del>SOLE OBSTANC</del>   | 112  |        |   |              |
| Soil insecticide  | H4   |        |   | 1            |
|   |      |        |   |              |
| To bottoms and sides of trenches etc  | m2   | 2856,5 |   |              |
|   | -    | 440.5  |   | <del> </del> |
| under surface beds  | m2   | 449,5  |   | _            |
| CONCRETE, FORMWORK AND REINFORCEMENT  | H2   |        |   | 1            |
|   | 114  |        |   |              |
| UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES                                       | H2   |        |   |              |
|   |      |        |   |              |
| 25MPa/19mm concrete   | H4   |        |   |              |
|   |      | 4.5    |   |              |
| Concrete blinding   | m3   | 14,5   |   | +            |
| Strip footings  | m3   | 130,5  |   | +            |
| Str. P. 100 to 150  | 1113 | 130,3  |   |              |
| Column base   | m3   | 29     |   |              |
|   |      |        |   |              |
| Reinforcement   | H4   |        |   |              |
|   |      | 22     |   |              |
| 8mm diameter bars   | t    | 29     |   |              |
| TEST CUBES  | H2   |        |   | +            |
| I CODES   | 114  |        |   | -            |
| Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x      |      |        |   |              |
| 150mm, sending them to an approved Testing Laboratory for testing and paying all charges    |      |        |   |              |
| in connection therewith.  | Sets | 1,5    |   |              |
|   |      |        |   | i e          |
| BRICKWORK   | H2   |        |   | +            |

|  | 1    |        | T | 1 |
|--|------|--------|---|---|
| Brickwork of NFP bricks in class II mortar   | Н4   |        |   |   |
| The state of the s | 11-7 |        |   |   |
| 220mm brick walls  | m2   | 145    |   |   |
| 110mm brick walls  | m2   | 72,5   |   |   |
|  | _    |        |   |   |
| 650x715mm brick column   | m2   |        |   |   |
| BRICKWORK SUNDRIES   | H2   |        |   |   |
| Brickwork reinforcement  | H4   |        |   |   |
|  |      |        |   |   |
| 75mm Wide reinforcement built in horizontally  | m    | 362,5  |   |   |
| 150mm Wide reinforcement built in horizontally   | m    | 1000,5 |   |   |
| TOTAL SECTION NO.3 - BILL NO.1 - EARTHWORKS  |      |        |   |   |
| TOTAL SECTION NO.5 - DIRECTOR LANDING  |      |        |   |   |
|  |      |        |   |   |
| SECTION NO.3   | H1   |        |   |   |
| BUILDING WORKS   | H1   |        |   |   |
| BOILDING WORKS   | пт   |        |   |   |
| BILL NO.2  | H1   |        |   |   |
| CONCRETE, FORMWORK AND REINFORCEMENT   | H1   |        |   |   |
| For any order of the del December for Turkey (2000 Felicine) Ward Complementary  |      |        |   |   |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  |      |        |   |   |
|  |      |        |   |   |
|  |      |        |   |   |
| SUPPLEMENTARY PREAMBLES  | H2   |        |   |   |
| Cost of tests  | H4   |        |   |   |
| 2001 01 10010  |      |        |   |   |
| The costs of making, storing and testing of concrete test cubes as required under clause 7   |      |        |   |   |
| "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the   |      |        |   |   |
| purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the  |      |        |   |   |
| contractor and to the approval of the architect. (Test cubes are measured separately)  |      |        |   |   |
| Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other   |      |        |   |   |
| foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a  |      |        |   |   |
| 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from   |      |        |   |   |
| the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated   |      |        |   |   |
| Famous   | 114  |        |   |   |
| Formwork   | H4   |        |   |   |
| Description of formula hall be described in the land of the land o |      |        |   |   |
| Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging,   |      |        |   |   |
| plumbing and fixing to true angles and surfaces as necessary to ensure easy release during   |      |        |   |   |
| stripping and for reconditioning as necessary before re-use  |      |        |   |   |
| The vertical strutting shall be carried down to such construction as is sufficiently strong to   |      |        |   |   |
| afford the required support without damage and shall remain in position until the newly constructed work is able to support itself   |      |        |   |   |
| ·  |      |        |   |   |
| Formworks to soffits of solid slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described   |      |        |   |   |
|  |      |        |   |   |
| Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described  |      |        |   |   |
|  |      |        |   |   |
| Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or   |      |        |   |   |
| collapse of excavated faces will not be measured and the cost thereof shall be deemed to be  |      |        |   |   |
| included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"   |      |        |   |   |
| In the second se |      |        | i | ı |

| PRECAST CONCRETE   | H2                   |       |  |
|--|----------------------|-------|--|
|  | 112                  |       |  |
| Concrete lintels   | Н3                   |       |  |
|  |                      |       |  |
| 110 x 75mm precast concrete lintels as per the engineers spec.   | m                    | 130,5 |  |
|  |                      |       |  |
| Turning pieces   | H4                   |       |  |
| 230mm Wide turning piece to lintels etc  | m                    | 116   |  |
|  |                      |       |  |
| REINFORCED CONCRETE  | H2                   |       |  |
|  |                      |       |  |
| 25MPa/19mm concrete  | H4                   |       |  |
| Surface beds   | m3                   | 72,5  |  |
| Surface beds   | 1113                 | 72,3  |  |
| CONCRETE SUNDRIES  | H2                   |       |  |
|  |                      |       |  |
| Finishing top surfaces of concrete smooth with a wood float  | H4                   |       |  |
|  |                      |       |  |
| Surface beds, slabs, etc   | m2                   | 870   |  |
| TEST CUBES   | H2                   |       |  |
|  |                      |       |  |
| Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x   |                      |       |  |
| 150mm, sending them to an approved Testing Laboratory for testing and paying all charges   |                      |       |  |
| in connection therewith. (Provisional)   | Sets                 | 5     |  |
| REINFORCEMENT  | H2                   |       |  |
| REINFORCEIVIENT  | 112                  |       |  |
| Mesh reinforcement   | H4                   |       |  |
|  |                      |       |  |
| Type 395 fabric reinforcement in concrete surface beds, slabs,   | m2                   | 449,5 |  |
|  |                      |       |  |
| TOTAL SECTION NO.3 - BILL NO.2 - CONCRETE, FORMWORK AND REINFORCEMENT  |                      |       |  |
| •  |                      |       |  |
|  |                      |       |  |
|  |                      |       |  |
| SECTION NO.3   | H1                   |       |  |
|  |                      |       |  |
| SECTION NO.3  BUILDING WORKS   | H1<br>H1             |       |  |
| BUILDING WORKS   | Н1                   |       |  |
|  |                      |       |  |
| BUILDING WORKS   | Н1                   |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  | H1<br>H1             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary   | H1<br>H1             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  | H1<br>H1             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary   | H1<br>H1             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   | H1<br>H1             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   | H1<br>H1             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  | H1 H2 H2             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   | H1 H1 H2             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK   | H1 H2 H2             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  | H1 H2 H2             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK   | H1 H2 H2             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  | H1 H2 H2             |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  | H1 H2 H2 H2 H4       |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and  | H1 H2 H2             |       |  |
| BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete   | H1 H2 H2 H2 H4       |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  | H1 H2 H2 H2 H4       |       |  |
| BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include  | H1 H2 H2 H2 H4       |       |  |
| BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include  | H1 H2 H2 H2 H4       |       |  |
| BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  | H1 H2 H2 H2 H4 H4    |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth   | H1 H2 H2 H2 H4 H4    |       |  |
| BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  | H1 H2 H2 H2 H4 H4    |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth   | H1 H2 H2 H2 H4 H4    |       |  |
| BUILDING WORKS  BILL NO. 3  MASONRY  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  SUPPLEMENTARY PREAMBLES  BRICKWORK  Sizes in descriptions  Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick  Linings to concrete  Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties  Hollow walls etc  Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole | H1 H1 H2 H2 H2 H4 H4 |       |  |

|   |    |        | ı |  |
|---|----|--------|---|--|
| Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous   |    |        |   |  |
| Face bricks   | H4 |        |   |  |
| Bricks shall be ordered timeously to obtain uniformity in size and colour   |    |        |   |  |
| Bricks shall be ordered timeously to obtain uniformity in size and colour   |    |        |   |  |
| Pointing  | H4 |        |   |  |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc  |    |        |   |  |
| SUPERSTRUCTURE  | H2 |        |   |  |
| Brickwork of NFP bricks in class II mortar  | H4 |        |   |  |
| Half brick walls  | m2 | 261    |   |  |
| One brick walls   | m2 | 1580,5 |   |  |
| One brick face brick walls  | m2 | 217,5  |   |  |
| Extra over for facebrick walls  | m2 | 1276   |   |  |
| 300x300mm brick columns   | m2 | 58     |   |  |
| Brickwork reinforcement   | H4 |        |   |  |
| 75mm Wide reinforcement built in horizontally   | m  | 986    |   |  |
| 150mm Wide reinforcement built in horizontally  | m  | 4016,5 |   |  |
| NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS  | H2 |        |   |  |
|   |    |        |   |  |
| Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations. | Н4 |        |   |  |
| 15mm x 150mm Wide sills set flat and slightly projecting  | m  | 130,5  |   |  |
| TOTAL SECTION NO.3 - BILL NO.3 - MASONRY  |    |        |   |  |
|   |    |        |   |  |
| SECTION NO.3  | H1 |        |   |  |
| BUILDING WORKS  | H1 |        |   |  |
| BILL NO.4   | H1 |        |   |  |
|   |    |        |   |  |
| WATERPROOFING   | H1 |        |   |  |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   |    |        |   |  |
|   |    |        |   |  |
| SUPPLEMENTARY PREAMBLES   | H2 |        |   |  |
| Waterproofing   | H4 |        |   |  |
| DAMP-PROOFING OF WALLS AND FLOORS   | H2 |        |   |  |
| One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course   | H4 |        |   |  |
| In walls  | m2 | 565,5  |   |  |
| One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"  | H4 |        |   |  |
|   |    |        |   |  |

| Under surface beds   | m2  | 870  |      |
|--|-----|------|------|
| TOTAL SECTION NO.3 - BILL NO.4 - WATERPROOFING   |     |      |      |
|  |     |      |      |
| CECTION NO. 2  | 114 |      |      |
| SECTION NO.3   | H1  |      |      |
| BUILDING WORKS   | H1  |      |      |
| BILL NO.5  | H1  |      |      |
| ROOF COVERINGS ETC   | H1  |      |      |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |     |      |      |
| preambles as specified in the Trades.  |     |      |      |
|  |     |      |      |
| SUPPLEMENTARY PREAMBLES  | H2  |      |      |
| General  | H4  |      |      |
|  | 114 |      |      |
| All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched   |     |      |      |
| Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with  "Chromadek" silicone polyester paint for exterior use  |     |      |      |
| <u>Sizes</u>   | H4  |      |      |
| All items are measured net unless otherwise described  |     |      |      |
| Flashings, trimming plates, etc.   | H4  |      |      |
|  | 114 |      |      |
| Prices to include for all cutting and waste and relevant fixing material, unless otherwise described   |     |      |      |
| All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable  |     |      |      |
| All items are unless otherwise described measured net  |     |      |      |
| PROFILED METAL SHEETING AND ACCESSORIES  | H2  |      |      |
| 0,58mm chromodek finished galvanised metal corrugated 10.5 profilr roof sheeting @ 17.5° 76x50mm S.A. Pine purlins @ 1100mm C/Cs, 900mm end purlins on prefabricated trusses @ 900mm C/Cs, to eng's details and spec |     |      |      |
|  | H4  |      |      |
| Roof covering with pitch not exceeding 50 degrees  | m2  | 1160 |      |
| Narrow flute closer  | m   | 348  |      |
| TOTAL SECTION NO.3 - BILL NO.5 - ROOF COVERINGS  |     |      |      |
|  |     |      |      |
| SECTION NO.3   | H1  |      |      |
|  |     |      |      |
| BUILDING WORKS   | H1  |      | <br> |
| BILL NO.6  | H1  | -    | <br> |
| CARPENTRY AND JOINERY  | H1  |      |      |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  |     |      |      |
|  |     |      |      |
| SUPPLEMENTARY PREAMBLES  | H2  |      |      |
|  |     |      |      |
| Particle board:  | Н3  |      |      |

| Particle board shall comply with the following specifications: a) SABS 1300 Particle board:   | 1    | Τ |   |
|---|------|---|---|
| exterior and flooring type b) SABS 1301 Particle board: interior type   |      |   |   |
|   | 1112 |   |   |
| Joinery:  | Н3   |   |   |
|   |      |   |   |
| Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc   |      |   |   |
| Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes   |      |   |   |
| Fixing  | Н3   |   |   |
| FIXING  | 113  |   |   |
| Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot   |      |   |   |
| pins to brickwork or concrete   |      |   |   |
| Decorative laminate finish:   | Н3   |   |   |
| Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions   |      |   |   |
| with adjacent similar finish  |      |   |   |
| PREFABRICATED ROOF TRUSSES  | H2   |   |   |
| PREPADRICATED ROOF TROSSES  | 112  |   |   |
| Pre-fabricated metal connected timber roof trusses  | Н3   |   |   |
| All trusses shall be fabricated by an approved truss manufacturer who holds a current   |      |   |   |
| Certificate of Competence awarded by the Institute for Timber Construction  |      |   |   |
| Timber  | Н3   |   |   |
| <u>ilmber</u>   | ПЭ   |   |   |
|   |      |   |   |
| Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460  |      |   |   |
|   |      |   |   |
| <u>Bolts</u>  | Н3   |   |   |
| Bolts shall be in accordance with BS 4190 or SABS 135   |      |   |   |
|   |      |   |   |
| Shear plates, tooth connectors and split rings  | Н3   |   |   |
| Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759   |      |   |   |
| Washers   | Н3   |   |   |
|   |      |   |   |
| Square or round washers of the following dimensions shall be used with all bolts:   |      |   |   |
| (1)Bolts up to 8mm diameter:  |      |   |   |
|   |      |   |   |
| Washers shall be minimum 25mm wide of minimum 2,50mm thickness  |      |   |   |
| (2)Bolts up to 12mm diameter:   |      |   |   |
| Washers shall be minimum 36mm wide of minimum 4,00mm thickness  |      |   |   |
| ·   |      |   |   |
| Bolts up to 20mm diameter:  |      |   |   |
| (3)Washers shall be minimum 60mm wide of minimum 5,00mm thickness   |      |   |   |
| Motel connector plates  | 112  |   |   |
| Metal connector plates  | H3   |   |   |
| Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel  |      |   |   |
| The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m2 commercial class hot dipped galvanising as per SABS 934 before stamping |      |   |   |
| <u>Truss construction</u>   | Н3   |   |   |
| Trusses shall be constructed in jigs specially designed to unsure the correct profile,  |      |   |   |
| overhangs and cambers   |      |   |   |
| Where metal connector plates are used all joints are to be close fitted butt joints made by   |      |   |   |
| precision pressing of the metal connector plates into each side of the joint  |      |   |   |
| L   |      | 1 | 1 |

| Truss design  | НЗ  |  |
|---|-----|--|
|   |     |  |
| All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")   |     |  |
| otos ( besign of finiber structures ) and code otoo ( coadings )  |     |  |
| Truss spacing   | НЗ  |  |
| The truss centres shall be less than or equal to that as described in this bill for each  |     |  |
| respective truss  |     |  |
|   |     |  |
| Truss pitch   | Н3  |  |
| The truss pitch shall be as described in this bill for each respective truss type   |     |  |
|   | 112 |  |
| Truss loading   | Н3  |  |
| Trusses shall be designed for a live load of 0,50kN/m2 and dead load as specified under the sub-heading "Specific load specifications for roof trusses"   |     |  |
| Shop drawings, design and erection guarantee certificates   | H3  |  |
|   |     |  |
| It will be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Representative/Agent in respect of the required shop drawings, design and erection guarantee certificates as specified   |     |  |
| Dimensions Dimensions   | Н3  |  |
| <u>Piliterisions</u>  | 113 |  |
| All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences  |     |  |
| Freshien  | Н3  |  |
| <u>Erection</u>   | пэ  |  |
| All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer   |     |  |
| Design system   | НЗ  |  |
| The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system  |     |  |
|   |     |  |
| However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent  |     |  |
| Specific specifications for roof trusses  | Н3  |  |
| Halan allow the deadle of the fall with a self-reliance of the state of the self-reliance of |     |  |
| Unless otherwise described, the following specifications will apply:  |     |  |
| (1)All trusses to be with a 10° pitch   |     |  |
| (2)The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres   |     |  |
| ROOFS   | H2  |  |
| 10013   | 112 |  |
| The following in plate nailed timber roof truss construction  | H2  |  |
| The following is applicable in respect of roof trusses  | H4  |  |
|   |     |  |
| The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes  |     |  |
| Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)   |     |  |
| Allow for the preparation and submission of the following documents in respect of all   |     |  |
| buildings   | H4  |  |
|   |     |  |

| ROOF TRUSSES  | НЗ  |        | 1        |
|---|-----|--------|----------|
| INCOT TROUBLE   | 113 |        | <br>     |
| Sawn softwood   |     |        |          |
| Battening at centres for tile roof covering   | m2  | 406    |          |
|   |     |        |          |
| 75 x 100mm Wall plates  | m   | 174    |          |
| 25 x 100mm Longitudinal bracing   | m   | 116    |          |
| 38 x 38mm Cross bracing   | m   | 87     |          |
|   |     | 0.     |          |
| 60 x 60 x 6 x 5,42kg/m L section Purlins  | m   | 43,5   |          |
| TIMBER RAFTERS  | H2  |        |          |
| 76x228mm deep grade 5 timber beam under roof installation to  | H4  |        |          |
| manufacturer's specification  | П4  |        |          |
| 75: 220   |     | 120 5  |          |
| 76x228mm deep beam  | m   | 130,5  |          |
| FASCIAS & BARGE BOARDS  |     |        |          |
| 10 x 225mm white everite nutec fascia board   | m   | 1766,1 |          |
|   |     | ,      |          |
| DOORS, ETC  | H2  |        |          |
| Solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame  | H4  |        |          |
| 40mm single door 813 x 2032mm high  | No  | 3      |          |
| TOTAL SECTION NO.3 - BILL NO.6 - CAPENTRY AND JOINERY   |     |        |          |
| TOTAL SECTION NO.5 - BILL NO.6 - CAPENTRY AND JOINERY   |     |        |          |
|   |     |        |          |
| SECTION NO.3  | H1  |        |          |
|   |     |        |          |
| BUILDING WORKS  | H1  |        |          |
| BILL NO.7   | H1  |        |          |
| CEILING , ETC.  | H1  |        |          |
|   |     |        |          |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   |     |        |          |
|   |     |        |          |
| SUPPLEMENTARY PREAMBLES   | H2  |        |          |
|   |     |        |          |
| Descriptions:   | H4  |        |          |
| Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete   |     |        |          |
| Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere |     |        |          |
| CEILING CONSTRUCTION, CORNICES, ETC.  | H2  |        |          |
| Caraica   | 114 |        |          |
| Cornice   | H4  |        |          |
| 75mm Coved cornices   | m   | 377    |          |
| SUSPENDED CEILINGS  | H2  |        |          |
|   |     |        |          |
| 1200 X 600MM Suspended Grid Ceiling with vinyl tiles to spec.   | H4  |        |          |
| Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of   |     |        | <u> </u> |
|   |     |        |          |
| 400mm by 32mm long galvanised nails.  | m2  | 870    |          |

|   |  |   | 1 | T |
|---|--|---|---|---|
| Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood            |  |   |   |   |
| rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling               |  |   |   |   |
| board and fitted flush in opening   | No   | 2 |   |   |
|   |  |   |   |   |
| TOTAL SECTION NO.3 - BILL NO.7 - CEILINGS, PARTIONS AND ACCESS FLOORING                           |  |   |   |   |
|   |  |   |   |   |
|   |  |   |   |   |
|   |  |   |   |   |
| SECTION NO.3  | H1   |   |   |   |
|   |  |   |   |   |
| BUILDING WORK   | H1   |   |   |   |
|   |  |   |   |   |
| BILL NO.8   | H1   |   |   |   |
|   |  |   |   |   |
| IRONMONGERY   | H1   |   |   |   |
|   |  |   |   |   |
| For preambles see "Model Preambles for Trades (2008   |  |   |   |   |
| Edition)" and Supplementary preambles as specified in the   |  |   |   |   |
| Trades.   |  |   |   |   |
|   |  |   |   |   |
|   |  |   |   |   |
|   |  |   |   |   |
| SUPPLEMENTARY PREAMBLES   | H2   |   |   |   |
| SOLI ELIZABITATO I REPUBLICA  | 112  |   |   |   |
| Descriptions  | H4   |   |   |   |
| Descriptions  | П4   |   |   |   |
| Itoms described as "plugged" shall be deemed to include   |  |   |   |   |
| Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs |  |   |   |   |
| screwing to fibre, plastic or metal plugs   |  |   |   |   |
|   |  |   |   |   |
| Finishes to ironmongery   | H4   |   |   |   |
|   |  |   |   |   |
| Where applicable finishes to ironmongery are indicated by   |  |   |   |   |
| suffixes in accordance with the following list:   |  |   |   |   |
|   |  |   |   |   |
| BS Satin bronze lacquered CH Chromium plated  |  |   |   |   |
|   |  |   |   |   |
| SC Satin chromium plated  |  |   |   |   |
|   |  |   |   |   |
| SE Silver enamelled   |  |   |   |   |
|   |  |   |   |   |
| GE Grey enamelled   |  |   |   |   |
|   |  |   |   |   |
| AS Anodised silver  |  |   |   |   |
|   |  |   |   |   |
| AB Anodised bronze  |  |   |   |   |
|   |  |   |   |   |
| AG Anodised gold  |  |   |   |   |
| The American Both   |  |   |   |   |
| ABL Anodised black  |  |   |   |   |
| ADE Allouiseu black   | -  |   |   |   |
| PB Polished brass   |  |   |   |   |
| I DI GIISIICU DI 033  | $\vdash$   |   |   |   |
| Pl. Polished and lacquored  | <del>                                     </del> |   |   |   |
| PL Polished and lacquered   | <del> </del>                                     |   |   |   |
| DT Franciscottod  | <u> </u>   |   |   |   |
| PT Epoxy coated   | <u> </u>   |   |   |   |
|   | -  |   |   |   |
| SD Sanded   |  |   |   |   |
|   | <u> </u>   |   |   |   |
| LETTERS, NAMEPLATES, ETC  | H2   |   |   |   |
|   |  |   |   |   |
| "Union"   | Н3   |   |   |   |
|   |  |   |   |   |
| 150 x 150mm Stainless steel plate engraved with "female" sign                                     | No   | 5 |   |   |
| (St/Steel)  |  |   |   |   |
|   |  |   |   |   |
| 150 x 150mm Stainless steel plate engraved with "male" sign                                       | No   | 5 |   |   |
| (St/Steel)  |  |   |   |   |
|   |  |   |   |   |
| 150 x 150mm Stainless steel plate engraved with "paraplegic"                                      | No   | 4 |   |   |
| sign (St/Steel)   |  |   |   |   |
|   |  |   |   |   |
| 150 x 150mm Stainless steel plate engraved with electrical  | No   | 5 |   |   |
| symbol (St/Steel)   |  |   |   |   |
|   |  |   |   |   |
|   |  |   | Ī | Ī |

|   |                      |       | 1 |
|---|----------------------|-------|---|
| 150 x 150mm Stainless steel plate engraved with "no smoking"  | No                   | 10    |   |
| symbol (St/Steel)   |                      |       |   |
|   |                      |       |   |
| 150 x 150mm Stainless steel plate engraved with "no open  | No                   | 10    |   |
| fires" symbol (St/Steel)  |                      | -     |   |
|   |                      |       |   |
| 150 x 150mm Stainless steel plate engraved with "no   | No                   | 10    |   |
|   | INO                  | 10    |   |
| unauthorised person" symbol (St/Steel)  |                      |       |   |
|   |                      |       |   |
| 150 x 150mm Stainless steel plate engraved with "no littering"  | No                   | 10    |   |
| symbol (St/Steel)   |                      |       |   |
|   |                      |       |   |
| 150 x 150mm Stainless steel plate engraved with a "Fire Hose  | No                   | 10    |   |
| Reel" sign (St/Steel)   |                      |       |   |
|   |                      |       |   |
| 150 x 150mm Stainless steel plate engraved with "Fire   | No                   | 10    |   |
|   | 140                  | 10    |   |
| Extinguisher" sign (St/Steel)   |                      |       |   |
|   |                      |       |   |
| DOOR IRONMONGERY  | H2                   |       |   |
|   |                      |       |   |
| Door stop   | No                   | 16,06 |   |
|   |                      |       |   |
| TOILET ROLL HOLDER  |                      |       |   |
|   |                      |       |   |
| Chromium plated (stainless steel polished brass) lockable toilet roll holder, plugged   | No                   | 5     |   |
| Cili Offiliatri piatea (Stairiless Steel polisifea brass) Tockable tollet Foli Holder, piagged  | INO                  | 3     |   |
|   |                      |       |   |
| <u>HANDLES</u>  |                      |       |   |
|   |                      |       |   |
| Franke Paraplegic Grab Rail 300x96x300mm  | No                   | 5     |   |
|   |                      |       |   |
| TOTAL - SECTION 3 - BILL 8 - IRONMONGERY  |                      |       |   |
|   |                      |       |   |
|   |                      |       |   |
|   |                      |       |   |
|   |                      |       |   |
|   |                      |       |   |
| SECTION NO.3  | <u>H1</u>            |       |   |
| SECTION NO.3  | <u>H1</u>            |       |   |
| SECTION NO.3  BUILDING WORKS  | <u>H1</u>            |       |   |
|   |                      |       |   |
|   |                      |       |   |
| BUILDING WORKS  | <u>H1</u>            |       |   |
| BUILDING WORKS  BILL NO. 9  | H1<br>H1             |       |   |
| BUILDING WORKS  | <u>H1</u>            |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK   | H1<br>H1             |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  | H1<br>H1             |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK   | H1<br>H1             |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  | H1<br>H1             |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  | H1<br>H1             |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  | H1<br>H1             |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  | H1<br>H1             |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  | H1<br>H1<br>H1       |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  | H1<br>H1<br>H1       |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  | H1<br>H1<br>H1       |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  | H1<br>H1<br>H1       |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers   | H1<br>H1<br>H1       |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as holed for bolt(s)" shall be  | H1<br>H1<br>H1       |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers   | H1<br>H1<br>H1       |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be   | H1<br>H1<br>H1       |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be   | H1<br>H1<br>H1       |       |   |
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| BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  Tenderers are referred to architect's drawings annexed to this document for full details of   | H1<br>H1<br>H1       |       |   |
| BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  | H1<br>H1<br>H1       |       |   |
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| BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  Tenderers are referred to architect's drawings annexed to this document for full details of   | H1<br>H1<br>H1       |       |   |
| BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc  PRESSED STEEL DOOR FRAMES  | H1 H1 H1 H4          |       |   |
| BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc   | H1 H1 H1 H4          |       |   |
| BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc  PRESSED STEEL DOOR FRAMES  | H1 H1 H1 H4          |       |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc  PRESSED STEEL DOOR FRAMES  1,2mm Double rebated frames suitable for one brick walls  | H1 H1 H1 H4          | 3     |   |
| BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc  PRESSED STEEL DOOR FRAMES  | H1 H1 H1 H4 H4       | 3     |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc  PRESSED STEEL DOOR FRAMES  1,2mm Double rebated frames suitable for one brick walls  Door frame for door of size 813 x 2032mm high | H1 H1 H1 H4 H4 H4 No | 3     |   |
| BUILDING WORKS  BILL NO. 9  METALWORK  For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  Descriptions  Descriptions  Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  Drawings  Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc  PRESSED STEEL DOOR FRAMES  1,2mm Double rebated frames suitable for one brick walls  | H1 H1 H1 H4 H4       | 3     |   |

| They are to be fitted with fising lass of 2,8mm aluminium 13mm wide x 100mm long weided to framing, one near sadi comer and intermediately not more than 300mm apart to side, to and bottom. Where concrete reveals, act the frames are to be countries and be to and south of the contraction of the side of the  |   |    | 1 | 1 |  |
|--|---|----|---|---|--|
| mustify and design truly squared and unless otherwise described, provanced in receives publics between the public of the public  | Description of the bound of the second form of the state of the best bounds.                    |    |   |   |  |
| heads from the outside. All agents portions must If perfectly on all faces and the so hurse as to come and close flesh without binding and point. Wherever are you could not seek that the seek of the selection will be a provided to a selection with the seek and introsections to be welled to selection will be a provided to a selection will be a selected to the seek as good and the selection of th |   |    |   |   |  |
| to speem and ideas freeky without bindless at any aport. Wherever possible, all angles and interactions to be widedline action or any deliding, asom or any availability, asom or any available, asom or any availability, as any availability, as a second or any availability, and a second or asom or availability, and a second or asom or availability, and a second or asom or availability, and a second or availability, and availability, |   |    |   |   |  |
| intersections to be welfeld by electric welfing, a sign or are welfing, a sample window is to be submitted to the exchibents of a possous before the work is a put in land. The frames, generally are to be suitable for brickwork, blockwork, or concrete reveals.  They are to be fitted with fisting lugs of 2,8mm aluminium 13mm wide x 300mm Jone welded, to famining, one near each corner and intermediately not more than 300mm apart to sides, too and bottom. Where concrete reveals, act to be famines are to be constrained where they come into contract with brickworks, steep and the centre as for the large above, immediately after the windows, doors, stc. have been delivered on to alice, they are to be thousandly after the windows, doors, at can be delivered on the single before they are fixed in position. Where they come into contact with brickwork, blockwork, contracts, steel, act, the framine is to be, restead with britain oparties and the fore they are fixed in position. Where they come into contact with brickwork is an advanced to some and close properly and are to be elected in their positions for building in and advanced to some and close properly and are to be elected in their positions for building in and advanced to some and close properly and are to be elected in their positions of mindle and the sow that will be a possible to be fired with the simple of the sound will be a possible of the sound o |   |    |   |   |  |
| be submitted to the Architect for proceed before the works and until names, generally are to be suitable for brickwork, blackwork, or concrete reveals.  They are no be fitted with fissing luss of 2.8mm aluminium 3.mm wide x 100mm long welded, to framing, one near each corner and intermediately not more than 300mm point to sides, to common the contract of the contract with the necessary screws at the centres as for the luss above, immediately after the windows, doors, exc. have been delivered on to side, they are to be counterwant whole off and this state of the second of the contract of the second of the contract of the second of the seco |   |    |   |   |  |
| There are to be fitted with finding lays of 2,8mm aluminium 3.1mm wide a 1,00mm loss wideled for families, one near each corner and intermediately and more than 300mm apart to 3dds. To all and 500mm apart to 3dds. The 500mm apart to 3dd section 400mm apart to 400mm apart |   |    |   |   |  |
| to framing, one near each corner and intermediately not more than 300mm apart to sides to one and bottom. Where concrete reveals, citc the frames are to be counters with holes for and ditted with the necessary screws at the centres as for the luss above, immediately after the windows, doors, che, have been delivered on to site, they are to be thorousely hoverhalled, and all necessary screws at the centres as for the luss above, immediately after the windows, doors, che, have been delivered on to site, they are to be thorousely hoverhalled, and all necessary adjustment or regain made before they are fixed in position. Where they come into contact with britishmusos pain in an approved manner. The windows, doors, etc., are to be leaded in their position for building in and addusted to pen and diose properly and are to be securely structured to prevent distoration whilst the brickwork and lintols, are being built. On completion of all other work the windows, door, are not all states for doors, windows, shortment set, should include for all astings as specified. Glazing beades: All door, act to be fitted with saling beades, unless otherwise described, mitred at an adjusted to the control of the salings as specified. Glazing beades: All door, act to be fitted with saling beades, unless otherwise described, mitred at an adjusted of the salings and streamed on discars and called with all responsibility. To use and ready for installation and must be disestined to indicate grade and thickness. Used the salings are should be adjusted to the salings and streamed to size out. To use and ready for installation and must be disestined to indicate grade and thickness. On the salings are should be adjusted to a structure of responsibility.  ABAMISA guide  Hd.  All windows, doors, etc. shall comply with and meet the minimum recommended performance requirements as set out in the General Specification for Architectural Aluminium alloy and the saling and the salings of the  | generally are to be suitable for brickwork, blockwork, or concrete reveals.                     |    |   |   |  |
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| Top and bottom. Where concrete reveals, set, the frames are to be countersunk holed for an fitted with the necessary screws at the centre as for the lugs above. Immediately after the windows, doors, etc, have been delivered on to site, they are to be thoroughly overhauled, and all necessars adjustment or regains made before the set feed in position. Where they, come into contact with britishows, blockwork, sonrete, steel, etc, the framing is to be treated with britishows paint in an approxed anamer. The windows, doors, etc, are to be placed in their positions for building in and adjusted to open and close properly and are to be securely structured or prevent distortion whist the britishows and lintors, are being built. On completion of all other work the windows, doors, are to be adjusted as necessary and, rendered in a complete and satisfactory state of regain and in working order. General All rates for doors windows, shops from set, should include for all galating as specified. Glazing beads, alled once to be fitted with planing beads, unless otherwise described, mired at anales and screwed on. Glass and Glazing. All functional glass must be delivered to sites cut to size and reads for installation and must be classified to indicate rande and fiftically accepted in writing by the temployer. Thereafter an insurance letter will follow absolving the contrastor of responsibility.  HAAMASA guide  HAA  All windows, doors, etc shall comply with and meet the minimum recommended performance requirements as set out in the General Specification for Architectural Aluminum and Glass Products (Third Edition) as published by the Association of Architectural Aluminum and Glass Products (Third Edition) as published by the Association of Architectural Aluminum and Glass Products (Third Edition) as published by the Association of Architectural Aluminum and Glass Products (Third Edition) as published by the Association of Architectural Aluminum and Glass Products (Third Edition) as published by the Association of Architectural A |   |    |   |   |  |
| titled with the necessary acreew at the centres as for the lugs above. Immediately after the windows, doors, chave been delivered on to site, they are to be thorousethy overhauled, and all necessary adjustment or repairs made before they are fixed in position. Where they come into central with britkworks belowers, concrete, set, etc., the framing its to be treated with bituminuous paint in an approved manner. The windows, doors, etc. are to be placed in their positions for building in an adjusted to open and close properly and are to be securely structured to prevent distortation whilst the brickwork and into save the patient of |   |    |   |   |  |
| windows, doors, etc. have been delivered on to site, they are to be thouroughly overhauled, and all necessary duttement or realizer mide before they are fixed in politics. Where they come into contact with brickwork, blockwork, concrete, steel, etc. the framing is to be treated with britwinus saint in an approved manner. The windows, doors, etc. are to be placed in their positions for building in and adjusted to open and close properly and are to be securely structured to prevent distoration whilst the brickwork and limitos, are being built. On completion of all other work the windows, doors, are to be adjusted as necessary and rendered in a complete and statistantly value of previous theory state of repair and in working porter. General. All rates for doors, windows, shopfronts etc., should include for all agains as specified. Glazing, beasts, all door, reto the fitted with passing beads unless the delivered to site out to size and ready for installation and must be classified in discider and and thickness. Labels must remain on each piece of alass until it is placed, inspected and officially accepted, in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibility.  AAAMSA Ruide  In all windows, doors, etc shall comply with and meet the minimum recommended performance requirements as set out in the General Specification for Architectural Aluminium and Glass Products (Third Giltion) as published by the Association of Architectural Aluminium Audicustres of South Artica (AAMSA) The following specifications are to be completed with: Aluminium alloy extrusion: SS 1,474 Aluminium alloy sheets: SAS 190 Anodoling; SAS 99 Neoprene performed seals and gaskets: SATM CS42 Provider coat finishing: SANS 1274  The windows, doors, etc shall be natural anodised to a thickness of 25 micron and shall comply with ASS 999 and 1407  Glass  Leads to be with patent ruibber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part  |   |    |   |   |  |
| and all necessary adjustment or repairs made before they are fixed in position. Where they come indicontact with brickworks (blokworks, concrete, sized, etc., the framing its or be, treated with bituminuous paint in an approved manner. The windows, doors, etc., are to be, placed in their positions for building in an adjusted to open and close proverly and are to be securely structured to prevent distortation whilst the brickworks and lintols, are beine built. On completion of all other work the windows, shoors, not be adjusted an an excessary and, rendered in a complete and satisfactory state of repair and in working order. General, All retake for doors, windows, shoors, rost c, should include for all eating as especified. Glazing, beads: All disor, etc. to be fitted with patient beads, unless otherwise described, mitred at angles and screwed on. Glass and Glazing, all functional glass must be delivered to site out. to size and ready for installation and must be classified to indicate grade and thickness, labels must remain on each piece of plass sum till is blazing. Inspected and officially accepted in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibility.  All windows, doors, etc shall comply with and meet the minimum recommended performance requirements as set out in the General Specification of Architectural Aluminium Manufacturers of South Africa (AAAMSA). The following specifications or to be complied with Alaminium alloy checks: SANS 903 Anocidiong; SANS 999 Neoprene performed seals and gaskets: SATM C542 Powder cost finishing: SANS 1274  Finish  The windows, doors, etc shall be natural anodised to a thickness of 25 micron and shall comply with SASS 999 and 1407  Glass  Hith Carriers of plass shall be in accordance with table 1 (Part N. Glazing). Safety glass shall comply with SASS 999 and 1407  Glass  Hith Carriers of plass of the safety glass of the safety glass.  Design indemnity  Hith Carriers are referred to architect's drawings annexed to the |   |    |   |   |  |
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| sheets: SANS 903 Anodising: SANS 999 Neoprene performed seals and gaskets: SATM C542 Powder coat finishing: SANS 1274    H4  | , , ,   |    |   |   |  |
| Powder coat finishing: SANS 1274  Finish H4  The windows, doors, etc shall be natural anodised to a thickness of 25 micron and shall comply with SABS 999 and 1407  Glass H4  Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part N : Glazing ). Safety glass shall comply with SABS 1263. The National Building Regulations shall be observed with regard to the specification of safety glass  Design indemnity H4  The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed  Drawings H4  Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc  Pricing. H4  All window prices should include alluminium louvres as shown  General H4  Workshop drawings to be approved by the architect before manufacture  |   |    |   |   |  |
| Finish  The windows, doors, etc shall be natural anodised to a thickness of 25 micron and shall comply with SABS 999 and 1407  Glass  H4  Glazing to be with patent rubber gaskets with glazing beads and comply with B5 952. Thickness of glass shall be in accordance with table 1 (Part N : Glazing ). Safety glass shall comply with SABS 1263. The National Building Regulations shall be observed with regard to the specification of safety glass  Design indemnity  H4  The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed  Drawings  H4  Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc  Pricing.  H4  Workshop drawings to be approved by the architect before manufacture   |   |    |   |   |  |
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| Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part N : Glazing ). Safety glass shall comply with SABS 1263. The National Building Regulations shall be observed with regard to the specification of safety glass  Design indemnity  H4  The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed  Drawings  H4  Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc  Pricing.  H4  All window prices should include alluminium louvres as shown  General  H4  Workshop drawings to be approved by the architect before manufacture  | comply with SABS 999 and 1407   |    |   |   |  |
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| the specification of safety glass  Design indemnity  H4  The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed  Drawings  H4  Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc  Pricing.  H4  All window prices should include alluminium louvres as shown  General  H4  Workshop drawings to be approved by the architect before manufacture   | , , , , ,   |    |   |   |  |
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| The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed    Drawings  | are specification of safety glass   |    |   |   |  |
| The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed    Drawings  | Design indemnity  | H4 |   |   |  |
| Drawings  H4  Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc  Pricing.  H4  All window prices should include alluminium louvres as shown  General  H4  Workshop drawings to be approved by the architect before manufacture   |   |    |   |   |  |
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| Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc  Pricing. H4  All window prices should include alluminium louvres as shown  General H4  Workshop drawings to be approved by the architect before manufacture   | document, fully completed and signed  |    |   |   |  |
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| All window prices should include alluminium louvres as shown  General H4  Workshop drawings to be approved by the architect before manufacture   | details of windows, doors, etc  |    |   |   |  |
| All window prices should include alluminium louvres as shown  General H4  Workshop drawings to be approved by the architect before manufacture   | 1   |    | l |   |  |
| General H4  Workshop drawings to be approved by the architect before manufacture   | Dricing   | шл |   |   |  |
| General H4  Workshop drawings to be approved by the architect before manufacture   | Pricing.  | H4 |   |   |  |
| Workshop drawings to be approved by the architect before manufacture   |   | H4 |   |   |  |
| Workshop drawings to be approved by the architect before manufacture   | All window prices should include alluminium louvres as shown                                    | Н4 |   |   |  |
|  |   |    |   |   |  |
| Ironmongery H4   | All window prices should include alluminium louvres as shown                                    |    |   |   |  |
| <u>Ironmongery</u> <u>H4</u>   | All window prices should include alluminium louvres as shown  General                           |    |   |   |  |
|  | All window prices should include alluminium louvres as shown  General                           |    |   |   |  |
|  | All window prices should include alluminium louvres as shown  General                           | H4 |   |   |  |

| Prices for windows shall allow for two standard stainless steel side/top hung friction hinges and one bronze anodised aluminium handle per opening sash. Prices for doors shall allow for two pairs of standard flush bolts to double doors and one-and-a-half pairs of standard hinges per door leaf.  Natural annodised series 340 aluminium windows, doors, etc including sub-frames, fixing, |    |      |  |
|--|----|------|--|
| silicone sealant all round, ironmongery and glazed with 6,38mm clear laminated safetyglass unless otherwise stated   | НЗ |      |  |
| Windows  | H2 |      |  |
| Aluminium window size 1908 x 1000mm high - W02   | No | 2    |  |
| Aluminium window size 1908 x 1000mm high - W03   | No | 8    |  |
| <u>Doors</u>   | H2 |      |  |
| Aluminium door size 1511 x 2032mm high - D08   | No | 1    |  |
| Aluminium door size 5775 x 2450mm high - D07   | No | 1    |  |
| Aluminium door size 2980 x 2700mm high - SF02  | No | 2    |  |
| TOTAL SECTION NO.3 - BILL NO.9 - METALWORKS  |    |      |  |
|  |    |      |  |
| SECTION NO.3   | H1 |      |  |
| BUILDING WORKS   | H1 |      |  |
| BILL NO. 10  | H1 |      |  |
| <u>PLASTERING</u>  | H1 |      |  |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  |    |      |  |
|  |    |      |  |
| INTERNAL PLASTER   | H2 |      |  |
| Cement plaster on brickwork  | H4 |      |  |
| On walls   | m2 | 1595 |  |
| EXTERNAL PLASTER   | H2 |      |  |
| On walls   | m2 | 522  |  |
| CLADDING   |    |      |  |
| Cladding to the external walls   | m2 | 145  |  |
| TOTAL SECTION NO.3 - BILL NO.10 - PLASTERING   |    |      |  |
|  |    |      |  |
| SECTION NO.3   | H1 |      |  |
| BUILDING WORKS   | H1 |      |  |
| BILL NO.11   | H1 |      |  |
| TILING   | H1 |      |  |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.  |    |      |  |
|  |    |      |  |
| SUPPLEMENTARY PREAMBLES  | H2 |      |  |
| <u>Descriptions</u>  | H4 |      |  |

|  |               |          | 1 |              |
|--|---------------|----------|---|--------------|
| Union described as "fixed with adhesive to places," destay also where \" descriptions of tiling  |               |          |   |              |
| Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster   |               |          |   |              |
| backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3   |               |          |   |              |
| plaster bedding  |               |          |   |              |
| ,  |               |          |   |              |
| WALL TILING  | H2            |          |   |              |
|  |               |          |   |              |
| On walls   | m2            | 522      |   |              |
|  |               |          |   |              |
| FLOOR TILING   | H2            |          |   |              |
|  | -             | 070      |   |              |
| On floors and landings   | m2            | 870      |   |              |
| Skirting formed of ceramic tile cut to 300 x 75mm high   | m             | 377      |   |              |
| Similar of the date of the same the sam |               | <u> </u> |   |              |
| TOTAL SECTION NO.3 - BILL NO.11 - TILING   |               |          |   |              |
|  |               |          |   |              |
|  |               |          |   |              |
|  |               |          |   |              |
| SECTION NO.3   | <u>H1</u>     |          |   |              |
|  |               |          |   |              |
| BUILDING WORK  | <u>H1</u>     |          |   |              |
| RILL NO 12   | Ш1            |          |   |              |
| BILL NO.12   | <u>H1</u>     |          |   |              |
| PLUMBING AND DRAINAGE  | H1            |          |   |              |
|  | _ <del></del> |          |   |              |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary  |               |          |   |              |
| preambles as specified in the Trades.  |               |          |   |              |
|  |               |          |   |              |
|  |               |          |   |              |
|  |               |          |   |              |
| SUPPLEMENTARY PREAMBLES  | H2            |          |   |              |
| Polycop polypropylene pipes:   | Н3            |          |   |              |
| <u>Ројусор ројургорујене рірез.</u>  | 113           |          |   |              |
| Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16   |               |          |   |              |
| pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as  |               |          |   |              |
| designed for use with copper pipes as stated   |               |          |   |              |
|  |               |          |   |              |
| Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision   |               |          |   |              |
| for accommodating thermal movement and jointed and fixed strictly in accordance with the   |               |          |   |              |
| manufacturer's instructions  |               |          |   |              |
| All of the discontant and a second substitute of   |               |          |   |              |
| All pipe diameters are nominal external  |               |          |   |              |
| Polylink polypropylene pipes:  | Н3            |          |   |              |
| тогунна рогургоругене рірезі   | 113           |          |   |              |
| Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron  |               |          |   |              |
| "Supraclamp" running joints  |               |          |   |              |
|  |               |          |   |              |
| Fusion welded bends, once or twice mitred as necessary, and tees shall be factory  |               |          |   |              |
| manufactured   |               |          |   |              |
| Protection would all houses and according to the state of |               |          |   | 1            |
| Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z   |               |          |   |              |
| joint couplers   |               |          |   | -            |
| Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and  |               |          |   | <del> </del> |
| for brass compression male iron to copper straight couplers  |               |          |   |              |
| a process of the second |               |          |   |              |
| Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and  |               |          |   |              |
| reducers shall be of sufficient overall length to accommodate same   |               |          |   |              |
|  |               |          |   |              |
|  |               |          |   |              |
| All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions   |               |          |   | 1            |
| All nine diameters are nominal external  |               |          |   | <del> </del> |
| All pipe diameters are nominal external  |               |          |   |              |
| Concrete pipes:  | Н3            |          |   |              |
|  | 5             |          |   | <u> </u>     |
| Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with   |               |          |   |              |
| rubber rings   |               |          |   |              |
|  |               |          |   |              |
|  |               |          |   |              |

| Vitrified clay pines:  | Н3 | 1 | 1 |  |
|--|----|---|---|--|
| Vitrified clay pipes:  | ПЗ |   |   |  |
| Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid  |    |   |   |  |
| Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings  |    |   |   |  |
| uPVC pipes and fittings:   | Н3 |   |   |  |
| Soil, waste and vent pipes and fittings shall be solvent weld jointed  |    |   |   |  |
| , , , , , , , , , , , , , , , , , , ,  |    |   |   |  |
| uPVC pressure pipes and fittings:  | Н3 |   |   |  |
| Pipes for water supply shall be of the class stated  |    |   |   |  |
| Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings  |    |   |   |  |
| Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints   |    |   |   |  |
| Copper pipes:  | Н3 |   |   |  |
| Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground |    |   |   |  |
| Fixing of pipes  | Н3 |   |   |  |
| Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level  |    |   |   |  |
| Lead pipes and fittings  | НЗ |   |   |  |
| All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel   |    |   |   |  |
| Reducing fittings  | НЗ |   |   |  |
| Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained   |    |   |   |  |
| Wire gratings  | Н3 |   |   |  |
| Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings  |    |   |   |  |
| Septic tanks   | Н3 |   |   |  |
| Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions  |    |   |   |  |
| Exposed concrete surfaces  | Н3 |   |   |  |
| Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster  |    |   |   |  |
| <u>Excavations</u>   | НЗ |   |   |  |
| No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling   |    |   |   |  |

| Soft rock and "hard rock" shall be as defined in "Earthworks"  |           |      |      |
|--|-----------|------|------|
| Laving, backfilling, bedding, etc. of pipes  | Н3        |      |      |
| Laying, backnining, becuring, etc. or pipes  | 113       |      |      |
| Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions   |           |      |      |
| manufacturers instructions   |           |      |      |
|  |           |      |      |
| Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : |           |      |      |
| Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5,   |           |      |      |
| 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes).             |           |      |      |
| Unless otherwise described bedding of rigid pipes shall be class B bedding   |           |      |      |
| Flush pans   | Н3        |      |      |
|  |           |      |      |
| Flush pans shall have straight or side outlets and "P" or "S" traps as necessary   |           |      |      |
| Stainless steelbasins, sinks, wash troughs, urinals, etc.  | Н3        |      |      |
| Units shall have standard aprons on all exposed edges and tiling keys against walls where  |           |      |      |
| applicable   |           |      |      |
| Waste unions   | Н3        |      |      |
| TVOSE MINORS   | 113       |      |      |
| Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings   |           |      | <br> |
| fixed to fittings  |           |      | <br> |
| Steel sectional water tanks  | Н3        |      |      |
| Tanks shall comply with SABS CKS 114   |           |      |      |
| Donal and the Donal CA (Da ) Lad   | 112       |      |      |
| Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.   | Н3        |      |      |
| Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied  |           |      |      |
| with minimum 15mm lap per spiral unless otherwise described  |           |      |      |
|  |           |      |      |
| Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc           |           |      |      |
|  |           |      |      |
| <u>EQUIPMENT</u>   | <u>H2</u> |      |      |
| SEWER SYSTEM   | <u>H2</u> |      |      |
| Main Sewer Line - underground  | Н3        |      |      |
|  |           |      |      |
| Pipe to be UPVC Class 34 (Marley or equal)   | H4        |      |      |
| Pipe to be bedded in accordance with SANS 1200LB and SANS 1200 LD  | Н4        |      |      |
| 110 mm Ø piping  | m         | 87   |      |
|  |           |      |      |
| 50 mm Ø piping   | m         | 43,5 |      |
| Extra Over for Fittings  | H4        |      |      |
| 110 mm Ø 45° bends   | No        | 25   |      |
|  |           |      |      |
| 110 mm Ø Y-Junction UYAR42 Ribbed L/S Junction   | No        | 100  |      |
| 110 mm Ø 22,5° bends   | No        | 25   |      |
| 110 mm Ø UAP43 Rodding Eye c/w thrust block  | No        | 25   |      |
|  |           |      |      |
| Thrust Blocks 0,3 X 0,3 X 0,3 m in concrete for pipe direction changes and rodding   | No        | 50   |      |
| Excavation trenches 1m wide X 2,2m deep average (Rate to include for fill and compact in   |           |      |      |
| line with SABS 1200 LB   | No        | 325  |      |
| Brick Manholes constructed in line with SABS 1200LB and SABS 1200 LD c/w step irons,   |           |      |      |
| benched to detail, manhole covers and concrete covers  | No        | 25   |      |

|   |     |      | I |   |
|---|-----|------|---|---|
| Main Sewer Line - above ground  | H4  |      |   |   |
| Pipe to be UPVC Class 9 in accordance with SANS 10252 Part 2  | H4  |      |   |   |
| Pipe to be OPVC class 9 in accordance with SANS 10252 Part 2  | П4  |      |   |   |
| 110 mm Ø piping   | m   | 29   |   |   |
| 50 mm Ø piping  | m   | 43,5 |   |   |
| Extra Over for Fittings   | H4  |      |   |   |
|   |     |      |   |   |
| 110 mm Ø 45° bends  | No  | 25   |   |   |
| 110 mm Ø Y-Junction R/S with I.E  | No  | 50   |   |   |
| 110 mm Ø 22,5° bends  | No  | 25   |   |   |
|   |     |      |   |   |
| 110 mm Ø I.E on Line  | No  | 50   |   |   |
| 110 mm ØPipe Hangars c/w threaded bar and double lock-nut   | No  | 125  |   |   |
| 50 mm ØPipe Hangars c/w threaded bar and double lock-nut  | No  | 100  |   |   |
| Extra Over for Fittings   | 114 |      |   |   |
| <u>Extra Over for Fittings</u>  | H4  |      |   |   |
| 50 mm Ø 45° bends   | No  | 25   |   |   |
| 50 mm Ø Y-Junction  | No  | 50   |   |   |
| 50 mm Ø glued joint socket  | No  | 125  |   |   |
| 30 mm & glued Joint Socket  | INO | 125  |   |   |
| 50 mm Ø 90° bends Incl. I.E   | No  | 100  |   |   |
| 110 mm Ø one-way vent valve   | No  | 25   |   |   |
| 50 mm Ø - 110 mm Ø transformer  | No  | 50   |   |   |
|   | NO  | 30   |   |   |
| 110 mm Ø Kimberley Socket tranformation from internal to external piping  | No  | 50   |   |   |
| 50 mm Ø Back vent to main stack   | No  | 250  |   |   |
| 110 mm Ø I.E on Line  | No  | 25   |   |   |
|   |     |      |   |   |
| PVC Weld for underground Pipes  | No  | 50   |   |   |
| Two Way Vent Valve  | No  | 50   |   |   |
| STORAGE TANK  | H2  |      |   |   |
|   |     |      |   |   |
| 27000 litre 2750 dia. X 4800mm High complete on 10m high frame built by structural engineers                                    | No  | 5    |   |   |
|   |     |      |   |   |
| <u>GEYSER</u>   | H2  |      |   |   |
| 200 litre geyser complete with 2kW heat pump located in refuse yard Hot Water system is for the supply of the kitchen area only | No  | 5    |   |   |
| RAINWATER DISPOSAL  | H2  |      |   |   |
| 0,6mm Galvanised sheet iron with "Chromadek" finish on one side   | H4  |      |   |   |
|   | 114 |      |   |   |
| 100 x 125mm Eaves gutters with beaded front edge  | m   | 116  |   |   |
| Extra over eaves gutter for angle   | No  | 100  |   |   |
| Extra over eaves gutter for stopped end   | No  | 100  |   |   |
| Extra over eaves gutter for outlet for 100mm diameter pipe  | No  | 100  |   |   |
| 100mm Diameter rainwater pipes  | m   | 72,5 |   |   |
| 200mm Diameter ramwater pipes   | m   | 12,3 |   |   |
| Extra over rainwater pipe for eaves or plinth offset 450mm projection   | No  | 100  |   |   |
| Extra over rainwater pipe for shoe  | No  | 100  |   |   |
| • •   |     |      | • | • |

| SANITARY PLUMBING   | H2   |      |  |
|---|------|------|--|
| Extra heavy duty structured wall uPVC sewer pipes to SANS 1601  | H4   |      |  |
| Latta fleavy duty structured wall drive sewer pipes to shins 1001   | 114  |      |  |
| 50MM Pipes  | m    | 58   |  |
| 110mm Pipes   | m    | 174  |  |
|   |      |      |  |
| Extra over extra heavy duty structured wall uPVC sewer pipes to SANS 1601 for fittings  | Н3   |      |  |
| 50mm Access bend  | No   | 100  |  |
| 110mm Access bend   | No   | 100  |  |
| 50mm Junction   | m    | 29   |  |
| Softini Junction  | 1111 | 23   |  |
| SANITARY FITTINGS   | H2   |      |  |
| Basins  | H4   |      |  |
|   |      |      |  |
| Manufactured of acrylic material (white colour) as per developers prefered choice and range   | No   | 70   |  |
| Toilets   | H4   |      |  |
| Wall-hung (white color) with Gerberit or similar system as per developers prefered choice   | No   | 50   |  |
|   |      | - 55 |  |
| White vitreous china paraplegic semi close couple boxed suite with purpose made chromium plated side flush lever and purpose made uraa seat | No   | 10   |  |
| <u>Showers</u>  |      |      |  |
| RS PRO crome shower heads   | No   | 10   |  |
| N3 FNO CIOITIE SHOWEL HEAUS   | NO   | 10   |  |
| Acrylic Bath  |      |      |  |
| 1700 x 700mm Acrylic type bath with waste outlet, overflow grating with coupling and pair of handles, bedded in position.                   | No   | 10   |  |
| Kitchen sink  | H4   |      |  |
|   |      |      |  |
| Stainless steel double bowl sink as per developers prefered choice and range  | No   | 10   |  |
| TRAPS ETC   | Н3   |      |  |
| uPVC  | Н4   |      |  |
|   |      |      |  |
| 32 x 40mm Reseal "P" or "S" trap  | No   | 1390 |  |
| 40mm Reseal "P" or "S" trap   | No   | 745  |  |
| Floor drain to Architect's spec   | No   | 10   |  |
| ·   |      |      |  |
| TAPS, VALVES, ETC   | Н3   |      |  |
| 15mm Brass bib-tap  | No   | 10   |  |
| Chrome plated elbow action basin mixer  | No   | 60   |  |
|   | .10  | - 55 |  |
| Chrome plated single lever sink mixer including aerated swivel outlet and mounting kit complete   | No   | 10   |  |
|   |      |      |  |
| 15mm Chromium plated pillar tap   | No   | 75   |  |
| Wall type bath mixer with diverter and wall mounted hand shower holder including hand shower and hand shower hose                           | No   | 100  |  |
| Chrome plated wall type sink mixer including aerated swivel outlet  | No   | 100  |  |
| EEOmm Chromo plated should real last including sliding should   | Na   | 35   |  |
| 550mm Chrome plated shower rail set including sliding shower holder   | No   | 25   |  |
|   |      |      |  |

| Chrome plated single lever underwall bath mixer complete  | No    | 25    |      |
|---|-------|-------|------|
|   |       |       |      |
| Hand shower complete with hand shower rose and shower arm with wall flange  | No    | 25    |      |
| with wait halige  |       |       |      |
| 15mm chromium plated angle regulating valve and flexible  | No    | 500   |      |
| connection pipe   |       |       |      |
| PA3:522 "Masterflo 1" pressure control valve with vacuum  | No    | 150   |      |
| breaker   |       |       |      |
| TOTAL SECTION NO.3 - BILL NO.12 - PLUMBING AND DRAINAGE   |       |       |      |
| TOTAL SECTION NO. 5 SECTION 2 FEMILIAN SINGLAND |       |       |      |
|   |       |       |      |
| SECTION NO.3  | H1    |       |      |
|   |       |       |      |
| BUILDING WORK   | H1    |       |      |
| BILL NO.13  | H1    |       |      |
|   |       |       |      |
| ELECTRICAL WORKS  | H1    |       |      |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary   |       |       |      |
| preambles as specified in the Trades.   |       |       |      |
| Note: Contractor to provide temporary generator power on site during installation for   |       |       |      |
| testing and temporary power supply for the duration of the construction period  | H1    |       |      |
|   |       |       |      |
| Complete installation: Reticulation; electrical, telephone and data)  | H4    |       |      |
| NOTE: Tenderers are advised to study the specifications before pricing the bill.  | H4    |       |      |
|   |       |       |      |
| DISTRIBUTION BOARDS   | H2    |       |      |
| Supply, Install, test and commision distribution board in the bulding - Flush mounted   |       |       |      |
| distribution board cupboards, c/w all switchgear and breakers   | H4    |       |      |
| DB-A  | No    | 5     |      |
| DD-A  | INU   | 3     |      |
| Label all circuits and install signage to the panels and COC  | SUM   | 5     |      |
| Supply cable  | SUM   | 5     |      |
| Зирріу саме   | 30101 | 3     |      |
| EXTERNAL LIGHTING   | H2    |       |      |
|   |       |       |      |
| Supply, deliver, install, connect, test and commissioning the following external light fittings   | Н4    |       |      |
|   |       |       |      |
| TYPE W1 - Wall mounted bulkhead LED light fitting with LM6 die cast and extruded aluminium body and opal acrylic diffuser fitted with 15W LED lamp  | No    | 125   |      |
| auninium body and oparaci ync dindser nitted with 1300 LED famp   | INO   | 123   |      |
| TYPE F03 - Vapour proof flourescent light fitting, fitted with 2x36W T5 lamps   | No    | 125   |      |
| WIRING & TERMINALS  | Н3    |       |      |
| THE STREET  | 113   |       |      |
| Supply, delivery and installation of Cu Conductors:   | H4    |       |      |
| 2,5mm² PVC insulated conductor  | H4    |       |      |
|   | 114   |       |      |
| Supply and delivery   | m     | 362,5 |      |
| Installation  | m     | 362,5 |      |
|   |       | 302,3 | <br> |
| 2,5mm² bare copper earth wire   | H4    |       |      |
| Supply and delivery   | m     | 406   |      |
| Supply and delivery   |       | 400   |      |
| Installation  | m     | 406   |      |
| Day Light switch  | H4    |       |      |
| Day Light Switch  | 114   |       |      |
| Supply and installation   | No    | 5     |      |
|   |       |       |      |

| <u>LIGHTING INSTALLATIONS</u>  | H2 |       |  |
|--|----|-------|--|
| WIREWAYS   | Н3 |       |  |
|  |    |       |  |
| Supply and Install Trunking  | H4 |       |  |
| Supply and install P8000 trunking suspended from slab and trusses in ceiling void.   | H4 |       |  |
| Supply and delivery  | m  | 72,5  |  |
| Installation   | m  | 72,5  |  |
| Supply, delivery and installation of PVC conduits, surface mounted in ceiling voids and fixed to walls or cast-in or built into walls, including all fixing materials, bends, terminations, draw boxes, etc. | H4 |       |  |
| 20mm diameter  | H4 |       |  |
| Supply and delivery  | m  | 211,7 |  |
|  |    |       |  |
| Installation   | m  | 211,7 |  |
| Supply, delivery and installation of Conduit outlets boxes c/w locknuts and bushes built into brick or cast into concrete or surface mounted   | H4 |       |  |
| 100 x 50 x 50 mm, c/w applicable cover   | H4 |       |  |
| Supply and delivery  | No | 350   |  |
| Installation   | No | 350   |  |
| 65mm round box, c/w cover  |    |       |  |
|  |    |       |  |
| Supply and delivery  | No | 100   |  |
| Installation   | No | 100   |  |
| ACCESSORIES  | Н3 |       |  |
| Supply, deliver and install accessories to boxes   | H4 |       |  |
| 5A, 3-pin socket outlets to trunking   | No | 75    |  |
| WIRING & TERMINALS   | Н3 |       |  |
|  |    |       |  |
| Supply, delivery and installation of Cu Conductors:  | H4 |       |  |
| 1,5mm² PVC insulated conductor   | H4 |       |  |
| Supply and delivery  | m  | 420,5 |  |
| Installation   | m  | 420,5 |  |
| 2,5mm² bare copper earth wire  | H4 |       |  |
| Supply and delivery  | m  | 377   |  |
| Installation   | m  | 377   |  |
|  |    |       |  |
| LIGHT FITTINGS   | Н3 |       |  |
| Supply, deliver, install, connect, test and commissioning the following light fittings   | H4 |       |  |
| TYPE F01 - 1200x300mm surface mounted flourescent light fitting  | No | 150   |  |
| TYPE C1 - 230V 103mm diameter LED downlight ceiling recessed Die-cast aluminium body with acrylic lens(8w cool white)  | No | 150   |  |
| TYPE F02 - Open channel flourecscent light fitting   | No | 100   |  |
| Supply, deliver, install, connect, test and commissioning of Sensors   | H4 |       |  |
| Supply, deliver, install, conflect, test and commissioning or sensors  |    |       |  |
| Supply, deliver, install, connect, test and commissioning or sensors  Supply, deliver, install, connect, test and commissioning occupancy sensors  | H4 |       |  |

| WSD PDT  | No  | 100   |  |
|--|-----|-------|--|
| Adaptors 5 Amp 2 Way   | No  | 50    |  |
| Adaptors 5 Amp 4 Way   | No  | 25    |  |
|  |     | 25    |  |
| SMALL POWER INSTALLATION   | H2  |       |  |
| WIREWAYS   | Н3  |       |  |
| Supply, delivery and installation of PVC conduits, surface mounted in ceiling voids and fixed to walls or cast-in or built into walls, including all fixing materials, bends, terminations, draw |     |       |  |
| boxes, etc.  | H4  |       |  |
| 20mm diameter  | H4  |       |  |
| Supply and delivery  | m   | 211,7 |  |
| Installation   | m   | 211,7 |  |
| Supply and install conduit droppers chased or built into wall, consisting of 3 x 25mm dia & 2 x 20mm dia from wire basket & trunking in ceiling void to power skirting c/w 1.6mm draw wires      | No  | 50    |  |
| Supply, delivery and installation of Conduit outlets boxes c/w locknuts and bushes built into brick or cast into concrete or surface mounted, c/w applicable cover                               | H4  |       |  |
| 100 x 100 x 50 mm  | H4  |       |  |
| Supply and delivery  | No  | 150   |  |
| Installation   | No  | 150   |  |
| installation   | 140 | 130   |  |
| Supply, deliver and installation of the 1 compartment, 1 cover Midland power skirting complete with all accessories including internal/external bends, end caps etc.                             | H4  |       |  |
| as per ground floor drawing  | m   | 275,5 |  |
| Supply and Install Trunking  | H4  |       |  |
|  |     |       |  |
| Supply and install 5A 3 pin power trunking suspended from slab and trusses in ceiling void.  | H4  |       |  |
| Supply and delivery  | No  | 150   |  |
| Installation   | No  | 150   |  |
| Supply, delivery and installation of socket outlets  | H4  |       |  |
| 16 A, 3-pin standard white SSO   | H4  |       |  |
| Flush Mounted  | No  | 75    |  |
| Power skirting mounted   | No  | 75    |  |
| 16 A, 3-pin double white SSO   |     |       |  |
|  | H4  |       |  |
| Flush Mounted  | No  | 75    |  |
| 16 A, 3-pin dedicated red SSO  | H4  |       |  |
| Power skirting mounted, 45 degree (including plug top)   | No  | 75    |  |
| Supply and installation of power skirting accessories  | H4  |       |  |
| Blank cover plate suitable for RJ 11 telephone outlet  | No  | 100   |  |
| WIRING & TERMINALS   | Н3  |       |  |
| Supply, Deliver and installation of Cu Conductors:   | H4  |       |  |
| 2.5mm² PVC insulated conductor   |     |       |  |
| E.O. III I VC IIISUIGLEG CONGUCTOI   | H4  |       |  |

| Supply and delivery   | m         | 362,5 | 1 |
|---|-----------|-------|---|
| Supply and delivery   | m         | 302,3 |   |
| Installation  | m         | 362,5 |   |
| 2.5mm² bare copper earth wire   | H4        |       |   |
| 2.311111 Date copper earth wife   | 114       |       |   |
| Supply and delivery   | m         | 130,5 |   |
| Installation  | m         | 130,5 |   |
| motunation  |           | 130,3 |   |
| PROVISIONAL SUMS  | H2        |       |   |
| Provisional Sums exclude the cost of Overheads, Preliminaries and Profit  |           |       |   |
|   |           |       |   |
| Provisional Sums:   | H4        |       |   |
| Allow Eskom connection fee of R 30 000,00 (Thirty Thousand Rands)   | SUM       | 1     |   |
| TOTAL SECTION NO. 2. BILL NO. 42. ELECTRICAL WORKS  |           |       |   |
| TOTAL SECTION NO.3 - BILL NO.13 - ELECTRICAL WORKS  |           |       |   |
|   |           |       |   |
| SECTION NO.3  | H1        |       |   |
| <u>SECTION NO.3</u>   | <u> </u>  |       |   |
| BUILDING WORKS  | <u>H1</u> |       |   |
| BILL NO. 14   | H1        |       |   |
|   | 11.4      |       |   |
| GLAZING   | <u>H1</u> |       |   |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary   |           |       |   |
| preambles as specified in the Trades.   |           |       |   |
|   |           |       |   |
|   |           |       |   |
| TOPS, SHELVES, DOORS, MIRRORS, ETC  | H2        |       |   |
| Annua Cilinarad floot along pagengy hopland universe with 10 man houselled and notiched advan   |           |       |   |
| 4mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to     |           |       |   |
| plugs in brickwork or concrete  | Н3        |       |   |
| Mirror 400 x 600mm high with four (4) screws  | No        | 10    |   |
| Militor 400 x 000min might with 100h (4) serens   | 110       | 10    |   |
| TOTAL SECTION NO.3 - BILL NO.14 - GLAZING   |           |       |   |
|   |           |       |   |
|   |           |       |   |
| SECTION NO.3  | <u>H1</u> |       |   |
| BUILDING WORKS  | H1        |       |   |
|   |           |       |   |
| BILL NO. 15   | <u>H1</u> |       |   |
| PAINTWORK   | <u>H1</u> |       |   |
| For accompling one "Mandel Dreambles for Tordes (2000 FdV) NII 10 1   |           |       |   |
| For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.   |           |       |   |
|   |           |       |   |
|   |           |       |   |
| PAINTWORK ETC TO NEW WORK   | H2        |       |   |
|   |           |       |   |
| ON FLOATED PLASTER  | H2        |       |   |
| Plascon Polvin Super Acrylic to interior new cement plaster (NW 205). Surface to be dry.  |           |       |   |
| sound and clean and cured for a minimum of 14 days, with a moisture content measured  |           |       |   |
| with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two |           |       |   |
| coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance  |           |       |   |
| cycle of 5 years in a C1 - inland environment.  | H4        |       |   |
| On external plastered walls   | m2        | 522   |   |
|   |           |       |   |
| On internal plastered walls   | m2        | 1595  | j |

|   |     |       | <del></del> |
|---|-----|-------|-------------|
| ON CEILING BOARDS   |     |       | +           |
| ST.   |     |       | 1           |
| On ceiling  | m2  | 435   |             |
| On service  |     | 240   |             |
| On cornice  | m2  | 348   |             |
| ON SMOOTH CONCRETE  | H2  |       |             |
|   |     |       |             |
| Prepare surfaces and remove all loose material, and rinse. Apply flexible crackfiller to holes and cracks, one coat plaster primer and two coats Plascon Professional Copolymer Acrylic paint   | Н3  |       |             |
| On soffits of concrete slabs  | m2  | 464   |             |
| Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.  | H4  |       |             |
|   |     |       |             |
| On fascias and barge boards   | m2  | 174   |             |
| Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.   | H4  |       |             |
| On window sills not exceeding 300 mm girth  | m   | 130,5 |             |
|   |     | / -   |             |
| <u>ON METAL</u>   | H2  |       |             |
| Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry.  Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or  Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment. | Н4  |       |             |
| On door frames  | m2  | 232   |             |
|   |     | _     |             |
| On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )  | m2  | 116   |             |
| On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high  | m   | 58    |             |
| On roof sheeting  | m   | 667   | <br>        |
| ON WOOD   | H2  |       | +           |
| <u></u>   | 112 |       |             |
| Plascon Velvaglo Satin to interior new wood (NW 571). Surface to be dry, sound and clean.  Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot  Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated  within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent),  of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an  overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours   | 114 |       |             |
| drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.   | H4  |       | +           |
| Three coats matt varnish  | H4  |       |             |
|   |     |       | <br>        |
| On doors  | m2  | 87    | +           |
| TOTAL SECTION NO.3 - BILL NO.15 - PAINTWORK   |     |       | +           |
|   |     |       |             |
| CEATION A ALEETTI TOTAL TOTAL   |     |       |             |
| SECTION 3 - CAFETERIA - TOTAL EXCLUDING VAT   |     |       | 1           |

| SECTION 4 - SEPTIC TANK   |      |          |      |        |  |
|---|------|----------|------|--------|--|
| DESCRIPTION   | UNIT | QUANTITY | RATE | AMOUNT |  |
| SECTION NO.4  | H1   |          |      |        |  |
| BILL NO.1   | H1   |          |      |        |  |
| SEPTIC TANK   |      |          |      |        |  |
| SEFTIC TAINE  |      |          |      |        |  |
| Supply and installation of a reinforced concrete septic tank with brickwork lining with volume size $5000 \times 5000 \times 6000$ mm, with 110mm diameter rockler pipe at a length of 250mm bedded 1000mm deep underground, including excavation, backfiling, pipe work, fittings and joints complete as per the engineer's specification. | No   | 2        |      |        |  |
| TOTAL SECTION NO.4 - BILL NO.1 - SEPTIC TANK  |      |          |      |        |  |
|   |      |          |      |        |  |
| SECTION 4 - SEPTIC TANK - TOTAL EXCLUDING VAT   | DI/C |          |      |        |  |
| SECTION NO. 5   | 1    |          |      | T      |  |
| SECTION NO. 5   | H1   |          |      |        |  |
| BILL NO.1   | H1   |          |      |        |  |
| PARKING CARPOTS   |      |          |      |        |  |
| Parkings, etc.  |      |          |      |        |  |
| Supply and installation of structural steel double bay carports, plan view area size 10m x 2.7m including 100mm diameter hollow steel posts, hollow beams, braces, purlins, bolts and nuts, IBR sheeting complete as per the manufacturer or engineer specification.  |      |          |      |        |  |
|   | no   | 10       |      |        |  |
| Excavation in eart not exceeding 2m deep  |      |          |      |        |  |
| In holes  | m3   | 22       |      |        |  |
| Extra over bulk excavation in earth for excavation in   |      |          |      |        |  |
| Soft rock   | m3   | 2        |      |        |  |
|   |      |          |      |        |  |
| Hard rock   | m3   | 1        |      |        |  |
| Extra over all excavations for carting away   |      |          |      |        |  |
| Surplus material from excavations and/or stock piles on site to a dumping site to be located  | m3   | 22       |      |        |  |
| Keeping excavations free of water   |      |          |      |        |  |
| Keeping excavations free of water other than subterranean water   | Item | 1        |      |        |  |
| Reinforced Concrete cast against excavated surfaces   |      |          |      |        |  |
| 35MPa   |      |          |      |        |  |
|   |      | _        |      |        |  |
| Bases   | m3   | 22       |      |        |  |
| LAYER WORK  |      |          |      |        |  |
| 150mm crushed G1 material compacted to 88% Mod AASHTO Desnsity  | m3   | 6        |      |        |  |
| RAINWATER DISPOSAL  |      |          |      |        |  |
| 0.6mm Galvanised sheet iron with "Chromadek" finish on one side   |      |          |      |        |  |
| 100 x 125mm Eaves gutters with beaded front edge  | m    | 200      |      |        |  |
| Extra over eaves gutter for angle   | No   | 100      |      |        |  |
|   |      |          |      |        |  |
| Extra over eaves gutter for stopped end   | No   | 100      |      |        |  |

| Extra over eaves gutter for outlet for 100mm diameter pipe                                  | No  | 100 |   |  |
|---|-----|-----|---|--|
| 400 0:  |     |     |   |  |
| 100mm Diameter rainwater pipes  | m   | 60  |   |  |
| Extra over rainwater pipe for eaves or plinth offset 450mm                                  | No  | 100 |   |  |
| projection  | 140 | 100 |   |  |
| p. ojecto.  |     |     |   |  |
| Extra over rainwater pipe for shoe  | No  | 100 |   |  |
| ·   |     |     |   |  |
| STEELWORK   |     |     |   |  |
|   |     |     |   |  |
| 10mm support and anchor plate   | m2  | 15  |   |  |
|   |     |     |   |  |
| Extra over bolt anchorage   | No  | 60  |   |  |
| Road signs  |     |     |   |  |
| noud signs  |     |     |   |  |
| Standard "STOP" sign with 50mm diameter galvanised mild steel post bedded in and            |     |     |   |  |
| including unreinforced concrete base, including any necessary excavation, paint finish, etc |     |     |   |  |
|   | No  | 1   |   |  |
|   |     |     |   |  |
| Paintwork   |     |     |   |  |
|   |     |     |   |  |
| Two coats reflective road marking paint on tarmacadam                                       |     |     |   |  |
|   |     |     |   |  |
| Etching primer and two coats reflective road marking paint on concrete                      |     |     |   |  |
| IBR roof sheeting   | m   | 75  |   |  |
| ibk roor streeting  | 111 | /3  |   |  |
| Lines   | m   | 80  |   |  |
| Lines   |     |     |   |  |
| Numeral or letter 250mm high  | No  | 3   |   |  |
| •   |     |     |   |  |
| Traffic arrow 400 x 400mm wide extreme  | No  | 3   |   |  |
|   |     |     |   |  |
| Road signs  |     |     |   |  |
|   |     |     |   |  |
| Standard "STOP" sign with 50mm diameter galvanised mild steel post bedded in and            |     |     |   |  |
| including unreinforced concrete base, including any necessary excavation, paint finish, etc | No  | 2   |   |  |
|   | INO |     |   |  |
| <u>Paintwork</u>  |     |     |   |  |
|   |     |     |   |  |
| Two coats reflective road marking paint on tarmacadam                                       |     |     |   |  |
|   |     |     |   |  |
| Etching primer and two coats reflective road marking paint on concrete                      |     |     |   |  |
|   |     |     |   |  |
| IBR roof sheeting   | m2  | 125 |   |  |
| Line 40 mm mid-   |     | 250 |   |  |
| Line 10mm wide  | m   | 250 |   |  |
| Numeral or letter 250mm high  | No  | 3   |   |  |
| Transition of telect 250mm mgm  | 140 | 3   |   |  |
| Traffic arrow 400 x 400mm wide extreme  | No  | 3   |   |  |
|   |     |     |   |  |
| TOTAL SECTION NO 5 BILL NO 1 - CARPORTS   |     |     | - |  |
|   |     |     |   |  |
|   |     |     |   |  |
| SECTION NO. 5   | 114 |     |   |  |
| SECTION NO. 5   | H1  |     |   |  |
| BILL NO.2   | H1  |     |   |  |
| =   | 114 |     |   |  |
| AIR CONDITIONERS  |     |     |   |  |
|   |     |     |   |  |
| 12000BTU Mid Wall Air Conditioner (Supply, Install, Isolator and Remote control with        |     |     |   |  |
| batteries)  | No  | 50  |   |  |
|   |     |     |   |  |
| TOTAL SECTION NO 5 BILL NO 2 - AIR CONDITIONERS   | _   |     |   |  |
|   |     |     |   |  |
|   |     |     |   |  |
| CECTION NO. 5   |     |     |   |  |
| SECTION NO. 5   | H1  |     |   |  |
| <u> </u>  |     |     |   |  |

| DILL NO 2   | U4   |    |  |
|---|------|----|--|
| BILL NO.3   | H1   |    |  |
| FIRE AND SMOKE DETECTOR SYSTEM  |      |    |  |
| Supply and installation of SANS 10139 approved fire and smoke detector system with stanby   |      |    |  |
| power supply batteries, fire sensors, monitoring controllers, input and output devices, gas |      |    |  |
| control unit, including panels complete.  | No   | 70 |  |
| TOTAL SECTION NO 5 BILL NO 3 - FIRE AND SMOKE DETECTOR                                      |      |    |  |
|   |      |    |  |
| SECTION 5 - SPECIALIST WORK - TOTAL EXCLUDING VA  | T    |    |  |
| SECTION 6 - PROVISIONAL SU  | JMS  |    |  |
|   |      |    |  |
| SECTION NO.6  | H1   |    |  |
| PROVISIONAL SUMS  | H1   |    |  |
| BILL NO.1   | H1   |    |  |
| OTEN TOTAL  | 1112 |    |  |
| SUPPLEMENTARY PREAMBLES   | H2   |    |  |
| IT FIXED REQUIREMENTS WORKS   |      |    |  |
| NOTE: Tenderers are referred to the definition of general attendance on nominated sub-      |      |    |  |
| contractors given in Clause 9 of the Preliminaries  |      |    |  |
| NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at    |      |    |  |
| an amount lower than the amount given in the Bill   |      |    |  |
| IT FIXED REQUIREMENTS WORKS SUPPLY AND INSTALLATION   | H2   |    |  |
| IT FIXED REQUIREMENTS WORKS SOPPLY AND INSTALLATION   | 112  |    |  |
| IT Fixed Requiremenst   | H4   |    |  |
| Allow a provisional sum of R350 000,00 (Three Hundred and Fifty Thousand Rands) for the     |      |    |  |
| supply and installation of IT Fixed Requirements  | SUM  | 1  |  |
| Allow profit for the supply and installation of IT Fixed requirement works                  | Item | 1  |  |
|   |      |    |  |
| Allow attendance for the supply and installation of IT Fixed requirement works              | Item | 1  |  |
| TOTAL SECTION NO.6 - BILL NO.1 - PROVISIONAL SUMS-SPECIALIST WORK - IT                      |      |    |  |
| REQUIREMENTS  |      |    |  |
|   |      |    |  |
| SECTION NO.6  | H1   |    |  |
| 25.15.11.16.12  |      |    |  |
| PROVISIONAL WORKS   | H1   |    |  |
| BILL NO.2   | H1   |    |  |
| <u>LANDSCAPING</u>  | H2   |    |  |
|   |      |    |  |
| SUPPLEMENTARY PREAMBLES   | H1   |    |  |
| contractors given in Clause 9 of the Preliminaries.   |      |    |  |
| LANDSCAPPING COSTS ALLOWANCES   | H2   |    |  |
|   |      |    |  |
| Landscaping Cost Allowance  | H4   |    |  |
| Allow a provisional sum of R350 000,00 (Three Hundred and Fifty Thousand Rands) for the     |      |    |  |
| supply and installation of landscapping   | SUM  | 1  |  |
| Allow profit for the supply and installation of landscaping                                 | Item | 1  |  |
| Allow attendance for the supply and installation of landscaping.                            | Itom | 1  |  |
| Aniow attenuance for the supply and installation of failuscaping.                           | Item | 1  |  |
| TOTAL SECTION NO.6 - BILL NO.2 - PROVISIONAL SUMS-SPECIALIST WORK - LANDSCAPING             |      |    |  |
|   |      |    |  |

|   | 1    |     |  |
|---|------|-----|--|
| SECTION NO.6  | H1   |     |  |
|   |      |     |  |
| PROVISIONAL SUMS  | H1   |     |  |
| BILL NO.3   | H1   |     |  |
|   |      |     |  |
| SUPPLEMENTARY PREAMBLES   | H2   |     |  |
| RECEPTION COUNTER   |      |     |  |
|   |      |     |  |
| Note Contractor to obtain procurement SOW and/or linics with SWGC's Project Team  | Н3   |     |  |
| Note. Contractor to obtain procurement SOW and/or liaise with SWGC's Project Team.  | пэ   |     |  |
| The plugs, data points and the cabling must be entailed on the supply and installation of the   |      |     |  |
| tables  |      |     |  |
| RECEPTION COUNTER   | H2   |     |  |
|   |      |     |  |
| Reception Counter ( Including Joinery Fittings, Shelving and Units)   | H4   |     |  |
| Allow provisional sum of R250 000,00 (Two Hundred and Fifty Thousand Rands) for the   |      |     |  |
| supply and installation of the receptionist counter, including timber, silstone and back  | CUA  |     |  |
| painted glass complete as per the project manager's specification.  | SUM  | 1   |  |
| Allow a profit for the supply and installation of the reception counter including chairs  | Item | 1   |  |
| Allow attendance for the graph, and installation of the graphtical according above  | lkom | - 1 |  |
| Allow attendance for the supply and installation of the reception counter including chairs  | Item | 1   |  |
| TOTAL SECTION NO.6 - BILL NO.3 - PROVISIONAL SUMS - OFFICE FURNITURE - RECEPTION  |      |     |  |
| COUNTER   |      |     |  |
|   |      |     |  |
|   |      |     |  |
| SECTION NO.6  | H1   |     |  |
| PROVISIONAL SUMS  | H1   |     |  |
|   |      |     |  |
| BILL NO.4   | H1   |     |  |
| KITCHEN CUPBOARDS   |      |     |  |
|   |      |     |  |
| Note. Contractor to obtain procurement SOW and/or liaise with SWGC's Project Team.  | Н3   |     |  |
|   |      |     |  |
| Kitchen Cupboards (Including Joinery Fittings, Shelving and Units)  | H4   |     |  |
| Allow provisional sum of R350 000,00 (Three Hundred and Fifty Thousand Rands) for the   |      |     |  |
| supply and installation of the kitchen cupboard, including granite tops, formica door and   |      |     |  |
| drawer fronts, melawood internal shelves complete as per the Project manager's specification.   | SUM  | 1   |  |
|   |      |     |  |
| Allow a profit for the supply and installation of the kitchen counter including chairs  | Item | 1   |  |
|   |      |     |  |
| Allow attendance for the supply and installation of the kitchen counter including chairs  | Item | 1   |  |
| TOTAL SECTION NO.6 - BILL NO. 4 - PROVISIONAL SUMS - KITCHEN CUPBOARDS  |      |     |  |
|   |      |     |  |
|   |      |     |  |
| SECTION 6 - PROVISIONAL SUMS - TOTAL EXCLUDING V  | /AT  |     |  |
| CECTION NO. 7   |      |     |  |
| SECTION NO.7  | H1   |     |  |
| BILL NO.1   | H1   |     |  |
| CONTIGENCIES  | шэ   |     |  |
| CONTIGENCIES  | H2   |     |  |
|   |      |     |  |
| Allow an amount of R2 000 000,00 (Two Million Rands) for Contingencies re any unforeseen work, contingencies to be used at the discretion of the client through the principal agent | SUM  | 1   |  |
|   |      |     |  |
| TOTAL SECTION NO.7 - BILL NO.1 - CONTINGENCIES  |      |     |  |

| SUMMARY                               |  |   |  |
|---------------------------------------|--|---|--|
|                                       |  |   |  |
| SECTION 1 - PRELIMINARIES AND GENERAL |  |   |  |
| SECTION 2 - STUDENT ACCOMODATION      |  |   |  |
| SECTION 3 - CAFETERIA                 |  |   |  |
| SECTION 4 - SEPTIC TANK               |  |   |  |
| SECTION 5 - SPECIALIST WORKS          |  |   |  |
| SECTION 6 - PROVISIONAL SUMS          |  |   |  |
| SECTION 7 - CONTINGENCIES             |  |   |  |
|                                       |  |   |  |
| TOTAL EXCLUDING VAT                   |  |   |  |
| VAT @ 15%                             |  |   |  |
| TOTAL INCLUDING VAT                   |  |   |  |
|                                       |  | · |  |
|                                       |  |   |  |