

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES PRELIMINARIES & GENERAL CONDITIONS | Initial Amount | |
|----------|------|--|-------------------------|--------------|
| | | | Preliminaries / General | |
| | | | Fixed | Time Related |
| 1.0 | 1.0 | PROJECT PARTICULARS NAMES OF PARTIES <u>The titles and terms used in connection with this project shall have the following</u> The Project: A. Name: Greenhouse Park Facilities B. Nature: Construction of New Greenhouse Park Facilities C. Location: St. Vincent & the Grenadines Richmond, St. Vincent D. Employer: Government of the Saint Vincent and the Grenadines Represented by the National Authorising Officer for EDF Operations, Ministry of Finance and Planning Saint Vincent and the Grenadines Kingstown Halifax Street E. Contractor: To be determined Design Consultants F. Project Manager: FDL Consult Inc. Goodlands, G.P.O. Box 1803 Castries, St. Lucia G. Quantity Surveyor: FDL Consult Inc. Goodlands, G.P.O. Box 1803 Castries, St. Lucia H. Structural Engineer: FDL Consult Inc. Goodlands, G.P.O. Box 1803 Castries, St. Lucia H. M & E Consultants: FDL Consult Inc. Goodlands, G.P.O. Box 1803 Castries, St. Lucia Carried to Collection € | € | € |
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| | 2.0 | | | |
| | A. | <p>1 GENERAL</p> <p>CLAUSE 1 : Definitions</p> <p>CLAUSE 2 : Interpretation</p> <p>CLAUSE 3 : Language and Law</p> <p>CLAUSE 4 : Project Manager's Decisions</p> <p>CLAUSE 5 : Delegation</p> <p>CLAUSE 6 : Communications</p> <p>CLAUSE 7 : Subcontracting</p> <p>CLAUSE 8 : Other Contractors</p> <p>CLAUSE 9 : Personnel and Equipment</p> <p>CLAUSE 10 : Employer's and Contractor's Risks</p> <p>CLAUSE 11 : Employer's Risks</p> <p>CLAUSE 12 : Contractor's Risks</p> <p>CLAUSE 13 : Insurance</p> <p>CLAUSE 14 : Site Data</p> <p>CLAUSE 15 : Contractor to Construct the Works</p> <p>CLAUSE 16 : The Works to Be Completed by the Intended Completion Date</p> <p>CLAUSE 17 : Approval by the Project Manager</p> <p>CLAUSE 18 : Safety</p> <p>CLAUSE 19 : Discoveries</p> <p>CLAUSE 20 : Possession of the Site</p> <p>CLAUSE 21 : Access to the Site</p> <p>CLAUSE 22 : Instructions, Inspections and Audits</p> <p>CLAUSE 23 : Appointment of the Adjudicator</p> <p>CLAUSE 24 : Procedure for Disputes</p> | | |
| | B. | <p>2 TIME CONTROL</p> <p>CLAUSE 25 : Program</p> <p>CLAUSE 26 : Extension of the Intended Completion Date</p> <p>CLAUSE 27 : Acceleration</p> <p>CLAUSE 28 : Delays Ordered by the Project Manager</p> <p>CLAUSE 29 : Management Meetings</p> <p>CLAUSE 30 : Early Warning</p> | | |
| | C. | <p>3 QUALITY CONTROL</p> <p>CLAUSE 31 : Identifying Defects</p> <p>CLAUSE 32 : Tests</p> <p>CLAUSE 33 : Correction of Defects</p> <p>CLAUSE 34 : Uncorrected Defects</p> | | |
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| 1.0 | 1.0 | PROJECT PARTICULARS | € | € | |
| | 3.0 | | | | |
| | D. | 4 | COST CONTROL CLAUSE 35 : Contract Price CLAUSE 36 : Changes in the Contract Price CLAUSE 37 : Variations CLAUSE 38 : Cash Flow Forecasts CLAUSE 39 : Payment Certificates CLAUSE 40 : Payments CLAUSE 41 : Compensation Events CLAUSE 42 : Tax CLAUSE 43 : Currencies CLAUSE 44 : Price Adjustment CLAUSE 45 : Retention CLAUSE 46 : Liquidated Damages CLAUSE 47 : Bonus CLAUSE 48 : Advance Payment CLAUSE 49 : Securities CLAUSE 50 : Dayworks CLAUSE 51 : Cost of Repairs | | |
| | E. | 5 | FINISHING THE CONTRACT CLAUSE 52 : Completion CLAUSE 53 : Taking Over CLAUSE 54 : Final Account CLAUSE 55 : Operating and Maintenance Manuals CLAUSE 56 : Termination CLAUSE 57 : Fraud and Corruption CLAUSE 58 : Payment upon Termination CLAUSE 59 : Property CLAUSE 60 : Release from Performance CLAUSE 61 : Suspension of Bank Loan or Gran CLAUSE 62 : Eligibility | | |
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| | 4.0 | | | |
| | E. | PROGRESS CHART AND REPORTS The Contractor shall prepare and submit with his tender a draft programme and progress | Item | |
| | A. | PROGRESS CHART AND REPORTS (Cont'd) The Contractor shall keep a permanent written record on the site of the progress of the Works. This record shall be open to the inspection of the Project Manager at all reasonable times. A copy shall be furnished to the Contract Administrator on request. This report will contain at least the following: | Item | |
| | B. | PROGRESS CHART AND REPORTS <ul style="list-style-type: none"> 1. Weather Conditions 2. Manpower on the job in each trade 3. Major items of equipment on the job. 4. A brief summary of the work accomplished that day 5. Material Equipment, or Employer furnished items arriving or leaving site. 6. Significant events, including accidents. 7. Any testing made and their results, if known. 8. Any oral instructions received. 9. Visitors on the job. 10. Possible causes of delay. | | |
| | C. | ADVERTISING All advertising rights on the site are reserved to the Employer. | | |
| | F. | SITE SIGNBOARD Provision of a site signboard to be used as specified schedule 109 in the Technical | Item | |
| | G. | TEMPORARY FENCE(S) AND HOARDING(S) Provide temporary fence and hoarding as may be necessary for the security of the site and work thereon. | Item | |
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| | 5.0 | SITE ACCOMMODATION | | |
| | A. | <u>The Contract Administrator in conjunction with the Contractor shall select all temporary buildings including areas for use by nominated sub-contractors as may be necessary. The Ground on which temporary buildings are sited, shall be made good after removal of these buildings.</u> | | |
| | B. | Provide, erect and maintain suitable office accommodation and Mess-rooms for staff and workmen and remove on completion. | Item | |
| | C. | Provide, erect and maintain suitable sheds for storage of materials and remove on completion. | Item | |
| | D. | Provide temporary latrines for the use of workmen, to the satisfaction of the Project Manager and the Sanitary Authorities and empty and cleanse same as and when required and clear away on completion. | Item | |
| | E. | ROOM FOR MEETING: For the purposes of this Contract the Contractor shall provide suitable space within the general site office provided for the Contractor's supervisor, for a large desk with four chairs for use by the Employers consultants or representatives. The accommodation must include an adequate number of appliances, wash hand basin(s) with adequate lighting and ventillation.This work will be carried out by the Contractor. | Item | |
| | F. | WATER Provide water for the works including that for sub-contractors and specialists, at the various levels and positions where required including all necessary sumps temporary plumbing and storage and pay all charges for drawing water of main supply. This work would be carreid out by the Plumbing Contractor. | Item | |
| | G. | LIGHTING AND POWER Provide all necessary artificial lighting and power, including that for sub-contractors and specialists, and pay all charges for drawing off main supply. This work will be carried by the Electrical Contractor. | Item | |
| | H. | SITE TELEPHONE Provide a site telephone for the duration of the Works with branch lines to the Foreman's offices and pay all charges in connection therewith. This provision will be made available by the Project Manager. | Item | |
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| 1.0 | 1.0 | PROJECT PARTICULARS | € | € |
| | 6.0 | | | |
| | A. | <p>CORDINATION OF SERVICES The site organisation staff must include one or more persons with appropriate knowledge and experience of mechanical and electrical engineering services to ensure compatibility between engineering services, one with another and each in relation to the Works generally. Submit to the Contract Administrator, when requested, CVs or to other documentary evidence relating to the staff concerned.</p> | | |
| | B. | <p>SITE INSTRUCTION BOOK Provide and keep on the site of the Works a suitable triplicate log book in which the</p> | Item | |
| | C. | <p>SITE MEETINGS</p> | | |
| | D. | <p>SETTING OUT AND TOLERANCES Check the levels and dimensions of the site against those shown on the drawings, and record the results on a copy of the drawings. Notify the Contract Administrator in writing of any discrepancies and obtain instructions before proceeding. Inform the Contract Administrator when overall setting out is completed and before</p> | Item | |
| | E. | <p>PLANT, TOOLS AND VEHICLES</p> | Item | |
| | F. | <p>SCAFFOLDING</p> | Item | |
| | G. | <p>SUPERVISION In addition to the constant management and supervision of the Works provided by the</p> | Item | |
| | J. | <p>TRANSPORT FOR WORK PEOPLE</p> | | |
| | K. | <p>PROTECTION OF THE WORKS FROM ADVERSE WEATHER</p> | | |
| | L. | <p>SAFETY, HEALTH AND WELFARE</p> | Item | |
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| 1.0 | 1.0 | PROJECT PARTICULARS | € | € |
| | 7.0 | | | |
| | A. | WORKMEN'S COMPESATION | | |
| | B. | REMOVAL OF RUBBISH | Item | |
| | C. | PEST CONTROL | | |
| | D. | TESTING OF MATERIALS | Item | |
| | E. | TEMPORARY WORKS | | |
| | F. | TEMPORARY ROADS AND TEMPORARY WALKWAYS | | |
| | G. | ACCESS SCAFFOLDING | | |
| | | GENERAL ATTENDANCE ON NOMINATED SUBCONTRACTOR | | |
| | H. | Provide attendace upon, cut away for and make good after trades performed by own | | |
| | J. | Provide general attendace on nominated sub-contractors which shall be deemed to | | |
| | K. | SPECIAL ATTENDANCE ON NOMINATED SUBCONTRACTOR Provide special attendace on nominated sub-contractors eg. Cutting chses and the like, | | |
| | L. | WORK BY STATUTORY AUTHORITIES | | |
| | | WATER | Item | |
| | | ELECTRICITY | Item | |
| | | SEWERAGE MAIN CONNECTIONS | Item | |
| | | TELEPHONE MAIN SERVICES | Item | |
| | | CLEANING WORKS ON COMPLETION | Item | |
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| | 8.0 | COLLECTION | | |
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| | | PRELIMINARIES / GENERAL CONDITIONS | | |
| | | TOTAL CARRIED TO LOT SUMMARY | € | 0.00 |

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| 2.0 | 1.0 | SITE PREPARATION WORKS | | | | |
| | | <u>Excavation and Earthworks</u> | | | | |
| | A | Excavate vegetable topsoil, average depth 150mm deep; dispose off site not exceeding 5 Km distance. | 6985 | m ² | | |
| | B | Disposal of excavated topsoil as specified. | 1045 | m ³ | | |
| | C | Excavate to reduce levels as shown on site grading and levelling plan; depth not exceeding 1.00 meters | 2143 | m ³ | | |
| | D | Filling to make up levels as shown on site grading and levelling plan with suitable excavated material height not exceeding 0.60 meters; including compaction as specified | 2132 | m ³ | | |
| | E | Sub-base hardcore material; 150mm thick, laid and compacted as specified. | 1800 | m ² | | |
| | | <u>Dewatering</u> | | | | |
| | F | Keep excavation free from water | 1 | L.S | | |
| | | SITE PREPARATION WORKS | | | | |
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| 3.0 | 1.0 | SUBSTRUCTURE | | | | |
| | A | <u>D12. Site Dewatering</u> Allow for dewatering of ground water in excavations as required | 1 | Item | | |
| | | <u>D20. Excavation and Filling</u> | | | | |
| | | <u>Excavation</u> | | | | |
| | B | Excavating trenches, width > 300mm; maximum depth ≤ 1.80 m to strip foundation footings. | 65.0 | m ³ | | |
| | C | Excavating pits (10 Nr.); maximum depth ≤ 1.80m to pad foundation footings. | 18.0 | m ³ | | |
| | | <u>Working Space Allowance to Excavations</u> | | | | |
| | D | To trench excavations. | 55.0 | m ² | | |
| | E | To pit excavations. | 14.5 | m ² | | |
| | | <u>Earthwork Support</u> | | | | |
| | F | Maximum depth ≤ 2.00 m; distance between opposing faces ≤ 2.00m below ground level to excavation pits and trenches. | 238.0 | m ² | | |
| | | <u>Disposal</u> | | | | |
| | G | Disposal of excavated material off site to suitable dump site approved by Engineer not exceeding 5 kilometers away. | 25.0 | m ³ | | |
| | | <u>Protection</u> | | | | |
| | H | Protection of the works in this section. | 1 | Item | | |
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| | 2.0 | SUBSTRUCTURE Cont'd | | | | |
| | A | Filling Filling to excavations; average thickness ≤ 250mm with material arising from the excavations; around foundation walls. | 51.0 | m ³ | | |
| | B | Filling to make up levels; average thickness < 200mm with selected rubble hardcore; obtained off site; properly graded | 32.5 | m ³ | | |
| | | Surface Treatment | | | | |
| | C | Compacting bottoms of excavations prior to concrete blinding | 56.0 | m ² | | |
| | D | Compacting hardcore in specified layers to receive concrete to floor slab. | 184.0 | m ² | | |
| | | Termite Treatment | | | | |
| | E | Subterranean termite treatment to surface of excavations and top of finished hardcore | 227.0 | m ² | | |
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| | 3.0 | SUBSTRUCTURE Cont'd | | | | |
| | | <u>E10 In Situ Concrete in Substructure</u> | | | | |
| | A | In situ concrete; blinding; 10 Mpa; 50mm thick to bottom of excavation. | 4.0 | m ³ | | |
| | | <u>In situ concrete; 35 Mpa 28 day strength; reinforced; filled into form work and well vibrated around reinforcement</u> | | | | |
| | B | In situ concrete; foundations; reinforced; in foundation strip footings 250mm thick. | 15.0 | m ³ | | |
| | C | In site concrete; isolated foundations; reinforced; in pad footings 300mm thick. | 4.5 | m ³ | | |
| | D | In site concrete; foundation; reinforced; in isolated columns 300mm square. | 1.0 | m ³ | | |
| | E | In situ concrete; slabs; thickness ≤ 150mm; 125mm thick ground floor and ramp slabs. | 27.0 | m ³ | | |
| | | <u>E20 Formwork in Substructure</u> | | | | |
| | F | To sides of foundations; plain vertical; height ≤ 250mm; plywood formwork to strip footings; 250mm high. | 46.0 | m ² | | |
| | G | To sides of foundations; plain vertical; height 250mm - 500mm; plywood formwork to isolated pad footings; 300mm high. | 14.5 | m ² | | |
| | H | To columns; isolated (10 Nr.); square shaped; height ≤1.50m; plywood formwork to sides of foundation columns. | 11.0 | m ² | | |
| | I | To sides of foundations; plain vertical; height ≤ 250mm; plywood formwork to ground floor slab and ramp; 125mm high. | 9 | m ² | | |
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| | 4.0 | SUBSTRUCTURE Cont'd | | | | |
| | | <u>E30 Reinforcement for In Situ Concrete</u> | | | | |
| | A | High tensile steel bar reinforcement; bent; 12mm diameter; in reinforced concrete strip footings. | 275.0 | Kgs | | |
| | B | High tensile steel bar reinforcement; straight; 12mm diameter; in reinforced concrete strip footings. | 298.0 | Kgs | | |
| | C | High tensile steel bar reinforcement; bent; 16mm diameter; in reinforced concrete pad footings. | 227.0 | Kgs | | |
| | D | High tensile steel bar reinforcement; bent; 20mm diameter; in reinforced concrete columns. | 185.0 | Kgs | | |
| | E | High tensile steel bar reinforcement; bent; 10mm diameter; as stirrups to columns in foundation. | 36.0 | Kgs | | |
| | F | High tensile steel bar reinforcement vertical; bent; 12mm diameter; in strip blockwalling @ 200mm crs.spacing | 276.0 | Kgs | | |
| | G | High tensile steel bar reinforcement; straight; 10mm diameter; in reinforced concrete ground floor slab and ramp.; with minimum 400mm laps. | 890 | Kgs | | |
| | | <u>E42 Accessories Cast into In Situ Concrete</u> | | | | |
| | H | 500 grade (polythene) damp proof membrane; to top of sand blinding in ground floor slab (M/S); minimum 300mm end and side laps. | 163.5 | m ² | | |
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| | 5.0 | SUBSTRUCTURE Cont'd | | | | |
| | | <u>F10 Brick/Block walling</u> | | | | |
| | A | Hollow blockwalls; 200mm thick; vertical; built against concrete columns; to stretcher bond in C & S mortar 1 : 3 mix; including filling all cavities with 1:2:4 mix concrete. | 89.0 | m ² | | |
| | | <u>F30. Accessories for Blockwalling</u> | | | | |
| | B | Brickforce or equal approved heavy duty galvanized steel ladder type joint reinforcement every two rows with 150mm laps at ends and corners in foundation wall; 200mm thick. | 222.0 | m | | |
| | | <u>M Surface Finishes</u> | | | | |
| | | <u>M10 Sand Cement/Concrete/Granolithic Screeds/Flooring</u> | | | | |
| | C | Floors; 25mm thick screed; 1:3 mix applied in 1 coat with float finish to exposed concrete floor slab. | 40.0 | m ² | | |
| | D | Prepare and apply floor hardner and sealer to finished surface of ground floor slab; receiving and processing areas. | 126.0 | m ² | | |
| | | <u>M20 Plastered / Rendered / Roughcast coatings</u> | | | | |
| | E | Walls; 13mm thick plaster; applied in 2 coats to exposed base of foundation blockwork and columns | 20.0 | m ² | | |
| | | <u>M60 Painting/Clear finishings</u> | | | | |
| | F | General surfaces of walls; 3 coats emulsion paint; prepared and applied to plastered surfaces of foundation ditto. | 30.0 | m ² | | |
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| | 6.0 | SUPERSTRUCTURE REINFORCED CONCRETE FRAME & SUSPENDED FLOOR <u>E10 In Situ Concrete</u> <u>In situ concrete; 35 Mpa 28 day strength; reinforced; filled into form work and well vibrated around reinforcement</u> | | | | |
| | A | In reinforced concrete columns; 300mm square | 4.0 | m ³ | | |
| | B | In reinforced concrete beams; | 17.0 | m ³ | | |
| | C | In reinforced concrete mezzanine floor slab; 125mm thick | 8.0 | m ³ | | |
| | D | In reinforced concrete staircase to mezzanine floor | 3.0 | m ³ | | |
| | E | In reinforced concrete lintels; 150mm x 200mm | 1.0 | m ³ | | |
| | F | In ring beams at roof level; | 4 | m ³ | | |
| | G | In reinforced concrete roof slab | 3 | m ³ | | |
| | | In reinforced concrete canopies | 2 | m ³ | | |
| | | <u>E20 Formwork for In Situ Concrete; dressed to give a smooth finish</u> | | | | |
| | H | To columns; isolated; square shaped | 54 | m ² | | |
| | I | To reinforced concrete beams; | 84 | m ² | | |
| | J | To soffit of mezzanine floor slab | 38.5 | m ² | | |
| | K | To sides of mezzanine floor slab; 150mm thick | 4.0 | m ² | | |
| | L | To soffit of staircase to mezzanine floor | 6.4 | m ² | | |
| | M | To sides and risers of staircase to mezzanine floor | 3 | m ² | | |
| | N | To lintels; reinforced; 150mm x 200mm | 14.0 | m ² | | |
| | O | To ring beams at roof level; | 35.0 | m ² | | |
| | P | To soffit of roof slab | 12 | m ² | | |
| | Q | To soffit and sides of canopies | 14.5 | m ² | | |
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| | 7.0 | REINFORCED CONCRETE FRAME & SUSPENDED FLOOR Cont'd | | | | |
| | | <u>E30 Reinforcement for In Situ Concrete</u> | | | | |
| | A | High tensile steel bar reinforcement; straight; 20mm diameter; in reinforced concrete columns. | 560.0 | Kgs | | |
| | B | High tensile steel bar reinforcement; straight; 25mm diameter; in reinforced concrete beams. | 1898.0 | Kgs | | |
| | C | High tensile steel bar reinforcement; bent; 16mm diameter; in reinforced concrete beams. | 220.0 | Kgs | | |
| | D | High tensile steel bar reinforcement; straight; 16mm diameter; in reinforced concrete staircase. | 119.0 | Kgs | | |
| | E | High tensile steel bar reinforcement; straight; 12mm diameter; in reinforced concrete lintels. | 76.0 | Kgs | | |
| | F | High tensile steel bar reinforcement; bent; 12mm diameter; in reinforced concrete suspended floor slab | 898.0 | Kgs | | |
| | G | High tensile steel bar reinforcement; straight; 12mm diameter; in reinforced concrete suspended roof slab | 365.0 | Kgs | | |
| | H | High tensile steel bar reinforcement; straight; 12mm diameter; in reinforced concrete canopies | 54.0 | Kgs | | |
| | I | High tensile steel bar reinforcement; 10mm diameter; straight; in canopies | 35.0 | Kgs | | |
| | J | High tensile steel bar reinforcement; 10mm diameter; straight; in staircase. | 48.0 | Kgs | | |
| | K | High tensile steel bar reinforcement; 10mm diameter; bent; as stirrups in columns. | 125.0 | Kgs | | |
| | L | High tensile steel bar reinforcement; 10mm diameter; bent; as stirrups in beams. | 554.0 | Kgs | | |
| | M | High tensile steel bar reinforcement; 10mm diameter; bent; as stirrups in lintels. | 25.0 | Kgs | | |
| | | | | To Collection | | - |
| | | COLLECTION | | | | |
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| | | REINFORCED CONCRETE FRAME & SUSPENDED FLOOR | | | | |
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| | 8.0 | SUPERSTRUCTURE Cont'd | | | | |
| | | BLOCKWORK & MASONRY | | | | |
| | | <u>F10 Brick/Block Walling</u> | | | | |
| | A | Hollow blockwalls; 150mm thick; vertical; built against concrete columns; to stretcher bond in C & S mortar 1 : 3 mix; including filling all cavities with 1:2:4 mix concrete in external walls. | 206.0 | m ² | | |
| | B | Hollow blockwalls; 150mm thick; vertical; built against concrete columns; to stretcher bond in C & S mortar 1 : 3 mix; including filling all cavities with 1:2:4 mix concrete in internal walls. | 82.0 | m ² | | |
| | C | Hollow blockwalls; 100mm thick; vertical; built against concrete columns; to stretcher bond in C & S mortar 1 : 3 mix; including filling all cavities with 1:2:4 mix concrete in internal walls. | 72.0 | m ² | | |
| | | <u>F30 Accessories/Sundry items for brick/block/stone walling</u> | | | | |
| | D | Vent blocks; (300mm x 300mm x 150mm) in panel size 1800mm x 600mm. | 4.0 | No. | | |
| | E | Vent blocks; (300mm x 300mm x 150mm) in panel size 600mm x 1500mm. | 4.0 | No. | | |
| | | <u>E30 Reinforcement for In Situ Concrete</u> | | | | |
| | F | High tensile steel bar reinforcement; straight; vertical; 12mm diameter; in blockwalling @ 400mm crs. horizontally | 990.0 | Kgs | | |
| | | <u>F30 Accessories for Blockwalling</u> | | | | |
| | G | Brickforce or equal approved heavy duty galvanized steel ladder type joint reinforcement with 150mm laps at ends and corners in 150mm thick block walls. | 432.0 | m | | |
| | H | Brickforce or equal approved heavy duty galvanized steel ladder type joint reinforcement with 150mm laps at ends and corners in 100mm block walls. | 108.0 | m | | |
| | | <u>E41 Worked Finishes</u> | | | | |
| | I | Hacking; surfaces of columns to form key for plaster | 38.0 | m ² | | |
| | J | Hacking; exterior surfaces of beams to form key for plaster | 28.0 | m ² | | |
| | | <u>M Surface Finishes</u> | | | | |
| | | <u>M20 Plastered / Rendered / Roughcast Coatings</u> | | | | |
| | K | Walls; 13mm thick plaster;1:3 mix applied in 2 coats; float finish to surfaces of blockwork . | 720.0 | m ² | | |
| | L | Columns; 13mm thick plaster;1:3 mix applied in 2 coats; finish to surfaces of columns. | 38.0 | m ² | | |
| | M | Beams; 13mm thick plaster;1:3 mix applied in 2 coats; float finish to exterior surfaces of perimeter beams. | 28.0 | m ² | | |
| | N | Beams; cement water dressing applied to interior surfaces of beams and soffits of slabs. | 95.0 | m ² | | |
| | | BLOCKWORK & MASONRY | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-------|----------------|------|-------------|
| | 9.0 | SUPERSTRUCTURE Cont'd | | | | |
| | | TIMBER FRAMED ROOF | | | | |
| | | <u>G20 Carpentry/ Timber Framing / First Fixing</u> | | | | |
| | A | Ridge Board; 50mm x 250mm treated WPP ridge board set to roof height | 19 | m | | |
| | B | Rafters; pitched; 50mm x 150mm WPP common rafter @ 600mm c/c fixed to Ridge Board and tied to roof beams and attic floor beams | 458 | m | | |
| | C | Plywood sheathing; 16mm thick fixed to 50mm x 250mm common rafters | 245 | m ² | | |
| | D | Laths ≤ 300mm ;25mm x 75mm laths/purlins @ 1.0m centers fixed to rafters and sheathing (m/s) | 275 | m | | |
| | E | Fascia board; width ≤ 300mm; 50mm x 250mm treated softwood in fascia board to end of rafters. | 71 | m | | |
| | | <u>H72 Aluminium Sheet Coverings/Flashings</u> | | | | |
| | F | Roof coverings; nominal pitch 12-33 degrees; 24 gauge industrial profile; colour clad; single length sheets; fixed by screws with matching cadmium plated steel washers / high quality neoprene fittings; lapped by 2nr. flute (125mm approx.); fixed to timber purlins (m/s). | 245.0 | m ² | | |
| | G | Ridges; 24 gauge industrial capping; 450mm wide; horizontal; fixed by screws with matching cadmium plated steel washers / high quality neoprene fittings. | 19.0 | m | | |
| | H | Hips; 24 gauge industrial capping; 450mm wide; horizontal; fixed by screws with matching cadmium plated steel washers / high quality neoprene fittings. | 25.0 | m | | |
| | I | Flashings; 24 gauge industrial capping; 450mm wide; sloping; fixed by screws with matching cadmium plated steel washers / high quality neoprene fittings. | 28.0 | m | | |
| | | <u>Hardware</u> | | | | |
| | K | Simpson strong tie 18 gauge 50mm x 150mm ridge rafter connector per rafter along the ridge board. | 68 | Nr. | | |
| | J | Simpson strong tie H16 or similar, fastened to rafter and embedded into ring beam ring beam ; in accordance with details and specifications. | 92.0 | Nr. | | |
| | L | Simpson strong tie H2.5 or similar, fastened to one side of rafter along hip rafters ; in accordance with details and specifications. | 24.0 | Nr. | | |
| | | TIMBER FRAMED ROOF STRUCTURE | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-------|----------------|---------------|-------------|
| | 10.0 | TIMBER FRAMED ROOF Cont'd | | | | |
| | | <u>M60 Painting/Clear finishings</u> | | | | |
| | A | General surfaces of timber roof members; 3 coats emulsion paint; prepared and applied to trusses and fascia board | 455.0 | m ² | | |
| | | <u>R10 Rainwater Pipework/Gutters</u> | | | | |
| | B | Gutters; seamless pvc; straight; 50mm x 150mm including outlets fixed to fascia board and connected to pvc downpipe as specified and detailed. | 64.0 | m | | |
| | C | Downpipes; straight; pvc 100mm including bends; connected to pvc gutter outlets ; carried down into water storage tanks | 6 | m | | |
| | | | | | To Collection | - |
| | | | | | | - |
| | | | | | | - |
| | | TIMBER FRAMED ROOF STRUCTURE | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|------|---|------|----------------|------|-------------|
| | 11.0 | CARPENTRY & JOINERY | | | | |
| | | Staircases | | | | |
| | | <u>L31 Stairs/Walkways/Balustrades</u> | | | | |
| | A | Hardwood timber railing; 50mm x 100mm; set 900mm above stair tread and min 70mm from wall; supported by prefabricated steel support and brackets anchored to wall at every 1.50 meters. | 6.5 | m | | |
| | | Internal Verandah/Balcony | | | | |
| | | <u>L31 Stairs/Walkways/Balustrades</u> | | | | |
| | B | Isolated balustrade; constructed of greenheart timber; 50mm x 100mm top and bottom rails, 50mm x 50mm vertical balusters and 100mm x 100mm end and intermediate posts supported by stainless steel anchor posts; fixed into reinforced concrete floor slab. | 3.5 | m | | |
| | | <u>Built-in Furniture</u> | | | | |
| | | <u>Fabrication and installation of Built-in Furniture using interior plywood with TPP support framing and finished with 1 coat wood primer and 2 coats emulsion paint; stainless steel screws and ironmongery.</u> | | | | |
| | C | Bathroom vanities and counter-tops (2 No.) | 1 | L.S | | |
| | D | Kitchen cabinets with concrete base and tiled countertops | 1 | L.S | | |
| | E | Shelving in Office Area on Mezzanine Floor | 1 | L.S | | |
| | F | Lockable cabinets in Staff locker room comprising 16 No. lockers. | 1 | L.S | | |
| | G | 12mm thk drywall taped and bonded on 50mm x 50mm timber joists and supports at 600mm c/c bothways with TPP moulding as ceiling to office on Mezzanine floor. | 37.5 | m ² | | |
| | | CARPENTRY AND JOINERY | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-----|---------------|------|-------------|
| | 12.0 | DOORS & WINDOWS | | | | |
| | | <u>L11 Aluminium Windows / Rooflights / Screens / Louvres</u> | | | | |
| | | <u>Supply and install U PVC fully framed casement-hung windows to masonry openings, include for mastic pointing to perimeter</u> | | | | |
| | A | Size, 910mm long x 1220mm high | 8 | No. | | |
| | B | Size, 1220mm long x 910mm high | 5 | No. | | |
| | C | Size, 610mm long x 910mm high | 3 | No. | | |
| | | <u>L20 Doors / Shutters / Hatches</u> | | | | |
| | | <u>Supply and install timber doors including 50mm x 150mm TPP framing and 25mm x 50mm TPP jambs as per general specifications</u> | | | | |
| | D | Door type 2; 900mm x 2000mm 6 panel solid core timber door | 1 | No. | | |
| | E | Door type 3; 850mm x 2000mm 6 panel solid core timber door | 6 | No. | | |
| | F | Door type 4; 750mm x 2000mm hollow core timber flush door | 2 | No. | | |
| | G | Door type 5; 750mm x 2000mm double swing solid core timber door | 1 | No. | | |
| | | <u>L20 Doors / Shutters / Hatches</u> | | | | |
| | | <u>Supply and install metal doors</u> | | | | |
| | H | Door type 1; 910mm x 2000mm 6 panel metal doors. | 2 | No. | | |
| | I | Door type 6; 3350mm x 2700mm galvanized steel (24 gauge) electric roll up doors in accordance with specifications. | 2 | No. | | |
| | | | | To Collection | | |
| | | | | | | |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|------|----------------|------|-------------|
| | 13.0 | DOORS & WINDOWS Cont'd | | | | |
| | | <u>Generally; Painting and Accessories</u> | | | | |
| | | <u>M60 Painting/Clear Finishings</u> | | | | |
| A | | General surfaces; frames; prepared and applied in one (1) under coat and two (2) finish coats to exposed surfaces timber doors, framing and jambs. | 48.0 | m ² | | |
| | | <u>M21 Ironmongery & Hardware</u> | | | | |
| B | | Commercial mortice lock set, cylinder type, lever handle both sides; stainless steel finish for entrance doors | 3 | Nr. | | |
| C | | Lever set; satin aluminum with key or internal button depression and key or internal lever rotation unlocking mechanisms | 8 | Nr. | | |
| D | | Bathroom lever set; satin aluminum; keyed latch bolt either side with emergency release opening in outside lever | 2 | Nr. | | |
| E | | 100mm x 75mm heavy duty door hinge; stainless steel | 26 | Nr. | | |
| F | | Floor mounted door stop; satin aluminum | 7 | Nr. | | |
| G | | 150mm x 300mm aluminum push plate installed in direction of door swing | 8 | Nr. | | |
| H | | 150mm x 300mm aluminum push plate installed in direction of door swing | 12 | Nr. | | |
| I | | Male/Female bathroom symbol 150mm x 150mm; aluminum | 2 | Nr. | | |
| J | | 100mm double action spring hinges to be installed as directed by the Engineer. | | L.S | | |
| | | <u>Master Key System</u> | | | | |
| K | | master key system for door locks. | | L.S | | |
| | | | | To Collection | | - |
| | | COLLECTION | | | | |
| | | From: Page 12 | | | | - |
| | | From: Page 13 | | | | - |
| | | DOORS AND WINDOWS | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|------|---|-------|----------------|------|-------------|
| | 14.0 | WALL, FLOOR & CEILING FINISHES | | | | |
| | | Wall Finishes | | | | |
| | | <u>M Surface Finishes</u> | | | | |
| | | <u>M60 Painting/Clear Finishings</u> | | | | |
| | A | General surfaces of walls; 1 coat primer and 2 coats emulsion paint; prepared and applied to plastered exterior surfaces of blockwalls (m/s). | 412.0 | m ² | | |
| | B | General surfaces of walls; 1 coat primer and 2 coats emulsion paint; prepared and applied to plastered interior surfaces of blockwalls (m/s). | 308.0 | m ² | | |
| | C | General surfaces - columns; 1 coat primer and 2 coats emulsion paint; prepared and applied to plastered surfaces of columns (m/s). | 38.0 | m ² | | |
| | D | General surfaces - beams; 1 coat primer and 2 coats emulsion paint; prepared and applied to plastered surfaces of columns (m/s). | 28.0 | m ² | | |
| | | <u>M40 Stone/Concrete/Quarry/Ceramic Tiling/Mosaic</u> | | | | |
| | E | Glazed ceramic tiling to walls; plain, width ≤ 300mm; pattern to plastered walls of washrooms and locker room where specified. | 10.0 | m ² | | |
| | | Floor Finishes | | | | |
| | | <u>M40 Stone/Concrete/Quarry/Ceramic Tiling/Mosaic</u> | | | | |
| | F | Floors; 25mm thick screed; 1:3 mix applied in 1 coat with float finish to suspended concrete floor slab. | 75.0 | m ² | | |
| | G | Slip resistant ceramic tiles to floors embedded in thinset and pointed finished with approved grout in specified rooms. | 75.0 | m ² | | |
| | H | Slip resistant ceramic tiles embedded in thinset and pointed finished with approved grout on stair treads and risers. | 9.0 | m ² | | |
| | I | Extra over cedar skirting knotted and primed with 2 No. coats wood stain ; 25mm x 100mm high; to base of walls in specified locations/rooms. See Finishes Schedule A-09 | 80.0 | m | | |
| | | Ceiling Finishes | | | | |
| | | <u>M60 Painting/Clear Finishings</u> | | | | |
| | J | General surfaces of ceilings; 1 undercoat and 2 finish coats emulsion paint; prepared and applied to soffit of floor and roof slabs (m/s). | 50.5 | m ² | | |
| | K | General surfaces of ceilings; 1 undercoat and 2 finish coats emulsion paint; prepared and applied to drywall ceiling. | 37.5 | m ² | | |
| | | WALL, FLOOR & CEILING FINISHES | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-----|---------------|------|-------------|
| | 15.0 | PLUMBING AND WATER STORAGE | | | | |
| | | <u>Sanitary Installations</u> | | | | |
| | | <u>Soil, Waste and Vent Systems</u> | | | | |
| | | <u>Supply and install the soil, waste and ventilation system within the building (including floor cleanouts and drains) strictly in accordance with the plumbing specifications (NB. Sanitary Fittings measured elsewhere)</u> | | | | |
| | A | Generally | 1 | Item | | |
| | | <u>Sanitary Appliances/Fittings</u> | | | | |
| | | Supply and install Sanitary Appliances and Fixtures in accordance with specifications and Sanitary Wares. | | | | |
| | B | W.C suite, low level close coupled cistern, S-trap outlet, plastic seat and cover, complete with all necessary supply and overflow fittings | 2 | Nr. | | |
| | C | Vanity wash basin, set in counter top, hot and cold faucet, complete with all necessary supply, waste and overflow fittings | 2 | Nr. | | |
| | D | Stainless steel; satin finish toilet roll holder in washrooms | 2 | Nr | | |
| | E | Stainless steel; satin finish surface mounted paper towel dispenser | 3 | Nr. | | |
| | F | Stainless steel; satin finish soap dispenser in all restrooms | 2 | Nr. | | |
| | G | Shower set, comprising chromium plated valve, rier pipe and shower rose, cold and hot water. | 1 | Nr. | | |
| | H | Floor drain; 300mm diameter; PVC/ABS body; stainless steel strainer; brass threaded inserts; stainless steel securing screws | 6 | Nr. | | |
| | | | | To Collection | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
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| | 16.0 | PLUMBING WORKS AND INSTALLATIONS Cont'd | | | | |
| | | <u>Sanitary Appliances/Fittings</u> | | | | |
| | | Supply and install Sanitary Appliances and Fixtures in accordance with specifications and Sanitary Wares Schedule. | | | | |
| | A | Stainless steel sink top; 900mm long x 460mm wide set into counter top, single bowl, single drainer, hot and cold stainless steel faucet, complete with all necessary supplies, waste and overflow fittings. | 1 | Nr. | | |
| | B | Stainless steel hand towel holder in kitchen | 1 | Nr. | | |
| | C | Stainless steel towel roll holder in locker/change room | 1 | Nr. | | |
| | D | Stainless steel shower rod in locker/change room | 1 | Nr. | | |
| | E | Supply and install 1000mm x 625mm x 325mm deep polypropylene single bowl floor mounted utility sink complete with steel legs, adjustable levellers; piping and stainless steel dual faucet | 2 | Nr. | | |
| | | <u>Piped Supply Systems</u> | | | | |
| | | Cold Water System | | | | |
| | F | Supply and install the cold water system within the building in its entirety | 1 | Item | | |
| | | Hot Water System | | | | |
| | G | Supply and install the hot water system within the building in its entirety | 1 | Item | | |
| | | Water Storage | | | | |
| | H | Supply and install 3 No. 1500 gallon water tanks including all piping and fittings | 1 | Item | | |
| | I | Supply and install water pump including connection to hot and cold water supply lines. | 1 | Item | | |
| | | <u>Builders Work in Connection with Plumbing Installations</u> | | | | |
| | J | Allow for all necessary builder's work., including cutting holes, mortices, chases, and the like,.... | 1 | Item | | |
| | | Test the Plumbing Installation on completion | 1 | Item | | |
| | | <u>Protection</u> | | | | |
| | K | Protect the works in this section. | 1 | Item | | |
| | | | | To Collection | | - |
| | | COLLECTION | | | | |
| | | From: Page 15 | | | | - |
| | | From: Page 16 | | | | - |
| | | PLUMBING AND WATER STORAGE | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|------|---|-----|------|------|-------------|
| | 17.0 | ELECTRICAL WORKS AND INSTALLATIONS | | | | |
| | A | Supply and installation of a Solar Power electrical system for the Packing Facility in accordance with electrical layout, details and specifications as follows: | | | | |
| | B | Electrical installation in accordance with electrical layout to include all conduit, wiring, boxes, switches, outlets, lighting, builders work and protection of the works. | | L.S | | |
| | C | 50 No. 1200mm x 1200mm interconnected cells (panels) including batteries, chargers and inverter in Photovoltaic System connected to main 15 Kw Solar Power Generation Unit. | | L.S | | |
| | D | 15 Kva Back-up Generator with 100 gallon back-up fuel storage tank. | | L.S | | |
| | E | Testing and inspection of electrical installations, approval from Regulatory Authority and commissioning. | | L.S | | |
| | | ELECTRICAL WORKS AND INSTALLATIONS | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|------|---|-----|------|------|-------------|
| | 18.0 | VENTILATION AND AIR CONDITIONING SYSTEM | | | | |
| | A | Supply and Installation of the Split Unit Air Conditioning System on Mezzanine Floor in accordance with the drawings and specifications provided. | | L.S | | |
| | | VENTILATION AND AIR CONDITIONING SYSTEM | | | | |
| | | Carried to Bill Summary | | | | - |
| | | | | | | |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|---------------|---|-----|------|------|---|
| | 19.0 A | <p data-bbox="585 322 1017 351">COOLING AND REFRIGERATION SYSTEM</p> <p data-bbox="585 394 1247 488">Supply and Installation of Walk-in Cooler and Freezer in accordance with drawings, specifications and manufacturers instructions.</p> <p data-bbox="585 1436 1017 1465">COOLING AND REFRIGERATION SYSTEM</p> <p data-bbox="989 1502 1247 1530">Carried to Bill Summary</p> | | L.S | | <div data-bbox="1596 1502 1771 1530" style="border: 1px solid black; text-align: center;">-</div> |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|---------------|--|-----|------|------|---|
| | 21.0 A | <p data-bbox="585 322 995 351">FIRE DETECTION AND ALARM SYSTEM</p> <p data-bbox="585 408 1247 502">Provision of a Fire Detection and Alarm System and integration with the Access Control to ensure the Building's fire readiness in accordance with drawings and specifications.</p> <p data-bbox="585 1573 995 1602">FIRE DETECTION AND ALARM SYSTEM</p> <p data-bbox="995 1639 1247 1667">Carried to Bill Summary</p> | | L.S | | <div data-bbox="1596 1639 1771 1667" style="border-top: 1px solid black; border-bottom: 1px solid black; text-align: center;">-</div> |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
|----------|---------------|--|-----|------|------|---|
| | 22.0 A | <p data-bbox="585 319 943 354">TELECOMMUNICATIONS SYSTEM</p> <p data-bbox="585 405 1240 474">supply and installation of phone and internet services within the Facility in accordance with drawings and specifications.</p> <p data-bbox="585 1942 943 1976">TELECOMMUNICATIONS SYSTEM</p> <p data-bbox="987 2010 1240 2044">Carried to Bill Summary</p> | | L.S | | <div data-bbox="1598 2004 1779 2039" style="border-top: 1px solid black; border-bottom: 1px solid black; text-align: center;">-</div> |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - PACKING FACILITY | QTY | UNIT | RATE | AMOUNT € |
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| | 23.0 | BILL SUMMARY | | | | |
| | | SUBSTRUCTURE WORKS | | | | - |
| | | SUPERSTRUCTURE WORKS | | | | |
| | | Reinforced Concrete Frame and Suspended Floor | | | | - |
| | | Blockwork and Masonry | | | | - |
| | | Timber Framed Roof | | | | - |
| | | Carpentry and Joinery | | | | - |
| | | Doors and Windows | | | | - |
| | | Wall, Floor and Ceiling Finishes | | | | - |
| | | BUILDING SERVICES | | | | |
| | | Plumbing and Water Storage | | | | - |
| | | Electrical Works and Installations | | | | - |
| | | Ventilation and Air Conditioning System | | | | - |
| | | Cooling and Refrigeration System | | | | - |
| | | Solar Water Heating | | | | - |
| | | Fire Detection & Alarm System | | | | - |
| | | Telecommunications | | | | - |
| | | GREENHOUSE PACKING FACILITY | | | | |
| | | TOTAL COST OF CONSTRUCTION | | | | |
| | | CARRIED TO FORM OF TENDER | | | | € - |
| | | | | | | |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - STORAGE BUILDING | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-------|----------------|---------------|-------------|
| | 3.0 | SUBSTRUCTURE (Contd.) | | | | |
| | | <u>E30 Reinforcement for In Situ Concrete</u> | | | | |
| | A | High tensile steel bar reinforcement; bent; 12mm diameter; in reinforced concrete strip footings. | 325.0 | Kgs | | |
| | B | High tensile steel bar reinforcement; straight 12mm diameter; in reinforced concrete stiffener columns. | 49.0 | Kgs | | |
| | C | High tensile steel bar reinforcement vertical; bent; 12mm diameter; in strip blockwalling @ 200mm crs.spacing | 115.0 | Kgs | | |
| | D | High tensile steel bar reinforcement; bent; 10mm diameter; as stirrups to stiffener columns in foundation. | 20.0 | Kgs | | |
| | E | High tensile steel bar reinforcement; straight; 10mm diameter; in reinforced concrete ground floor slab.; with minimum 400mm laps. | 506 | Kgs | | |
| | | <u>E42 Accessories Cast into In Situ Concrete</u> | | | | |
| | F | 500 grade (polythene) damp proof membrane; to top of sand blinding in ground floor slab (M/S); minimum 300mm end and side laps. | 40.0 | m ² | | |
| | | | | | To Collection | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - STORAGE BUILDING | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|------|----------------|-------------------------|-------------|
| | 4.0 | SUBSTRUCTURE (Contd.) | | | | |
| | | <u>F10 Brick/Block walling</u> | | | | |
| | A | Hollow blockwalls; 200mm thick; vertical; built against concrete columns; to stretcher bond in C & S mortar 1 : 3 mix; including filling all cavities with 1:2:4 mix concrete. | 31.0 | m ² | | |
| | | <u>F30. Accessories for Blockwalling</u> | | | | |
| | B | Brickforce or equal approved heavy duty galvanized steel ladder type joint reinforcement with 150mm laps at ends and corners in foundation wall; 200mm thick. | 78.0 | m | | |
| | | <u>M Surface Finishes</u> | | | | |
| | | <u>M10 Sand Cement/Concrete/Granolithic Screeds/Flooring</u> | | | | |
| | C | Floors; 25mm thick screed; 1:3 mix applied in 1 coat with float finish to exposed concrete floor slab. | 42.0 | m ² | | |
| | | | | | To Collection | - |
| | | COLLECTION | | | | |
| | | | | | From: Page 1 | - |
| | | | | | From: Page 2 | - |
| | | | | | From: Page 3 | - |
| | | | | | From: Page 4 | - |
| | | SUBSTRUCTURE | | | | |
| | | | | | Carried to Bill Summary | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - STORAGE BUILDING | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-------|----------------|------|-------------|
| | 5.0 | SUPERSTRUCTURE | | | | |
| | | <u>E10 In Situ Concrete</u> | | | | |
| | | <u>In situ concrete; 35 Mpa 28 day strength; reinforced; filled into form work and well vibrated around reinforcement</u> | | | | |
| | A | In reinforced concrete stiffener columns; | 2.0 | m ³ | | |
| | B | In reinforced concrete lintels; 150mm x 200mm | 0.5 | m ³ | | |
| | C | In reinforced concrete ring beams; | 2.0 | m ³ | | |
| | | <u>E20 Formwork for In Situ Concrete; dressed to give a smooth finish</u> | | | | |
| | D | To reinforced concrete stiffener columns; | 31 | m ² | | |
| | E | To reinforced concrete lintels; 150mm x 200mm | 5.6 | m ² | | |
| | F | To reinforced concrete ring beams; | 23.5 | m ² | | |
| | | <u>E30 Reinforcement for In Situ Concrete</u> | | | | |
| | G | High tensile steel bar reinforcement; straight; 12mm diameter; in reinforced concrete stiffener columns. | 125.0 | Kgs | | |
| | H | High tensile steel bar reinforcement; straight; 12mm diameter; in reinforced concrete lintels. | 50.0 | Kgs | | |
| | I | High tensile steel bar reinforcement; bent; 12mm diameter; in reinforced concrete ring beam. | 140.0 | Kgs | | |
| | J | High tensile steel bar reinforcement; 10mm diameter; bent; as stirrups in stiffener columns. | 100.0 | Kgs | | |
| | K | High tensile steel bar reinforcement; 10mm diameter; bent; as stirrups in lintels. | 30.0 | Kgs | | |
| | L | High tensile steel bar reinforcement; 10mm diameter; bent; as stirrups in ring beams. | 87.0 | Kgs | | |
| | | REINFORCED CONCRETE FRAME & SUSPENDED FLOOR | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - STORAGE BUILDING | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-------|----------------|------|-------------|
| | 6.0 | SUPERSTRUCTURE CONT'D | | | | |
| | | BLOCKWORK & MASONRY | | | | |
| | | <u>F10 Brick/Block Walling</u> | | | | |
| A | | Hollow blockwalls; 150mm thick; vertical; built against concrete columns; to stretcher bond in C & S mortar 1 : 3 mix; including filling all cavities with 1:2:4 mix concrete in external walls. | 70.0 | m ² | | |
| B | | Hollow blockwalls; 150mm thick; vertical; built against concrete columns; to stretcher bond in C & S mortar 1 : 3 mix; including filling all cavities with 1:2:4 mix concrete in internal walls. | 31.5 | m ² | | |
| | | <u>F30 Accessories/Sundry items for brick/block/stone walling</u> | | | | |
| C | | Vent blocks; (300mm x 300mm x 150mm) in panel size 1800mm x 1200mm. | 7.0 | No. | | |
| | | <u>E30 Reinforcement for In Situ Concrete</u> | | | | |
| D | | High tensile steel bar reinforcement; straight; vertical; 12mm diameter; in blockwalling @ 400mm crs. horizontally | 225.0 | Kgs | | |
| | | <u>F30 Accessories for Blockwalling</u> | | | | |
| E | | Brickforce or equal approved heavy duty galvanized steel ladder type joint reinforcement with 150mm laps at ends and corners in 150mm thick block walls. | 101.5 | m | | |
| | | <u>E41 Worked Finishes</u> | | | | |
| F | | Hacking; surfaces of columns to form key for plaster | 31.0 | m ² | | |
| G | | Hacking; exterior surfaces of lintls and beams to form key for plaster | 29.1 | m ² | | |
| | | <u>M Surface Finishes</u> | | | | |
| | | <u>M20 Plastered / Rendered / Roughcast Coatings</u> | | | | |
| H | | Walls; 13mm thick plaster;1:3 mix applied in 2 coats; float finish to surfaces of blockwork . | 203.0 | m ² | | |
| | | BLOCKWORK & MASONRY | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - STORAGE BUILDING | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-------|----------------|------|-------------|
| | 7.0 | TIMBER FRAMED ROOF | | | | |
| | | <u>G20 Carpentry/ Timber Framing / First Fixing</u> | | | | |
| | A | Rafters; pitched; 50mm x 150mm WPP common rafter @ 600mm c/c fixed to Ridge Board and tied to roof beams and attic floor beams | 94 | m | | |
| | B | Plywood sheathing; 16mm thick fixed to 50mm x 250mm common rafters | 62 | m ² | | |
| | C | Laths ≤ 300mm ;25mm x 75mm laths/purlins @ 1.0m centers fixed to rafters and sheathing (m/s) | 64 | m | | |
| | D | Fascia board; width ≤ 300mm; 50mm x 250mm treated softwood in fascia board to end of rafters. | 33 | m | | |
| | | <u>H72 Aluminium Sheet Coverings/Flashings</u> | | | | |
| | E | Roof coverings; nominal pitch 12-33 degrees; 24 gauge industrial profile; colour clad; single length sheets; fixed by screws with matching cadmium plated steel washers / high quality neoprene fittings; lapped by 2nr. flute (125mm approx.); fixed to timber purlins (m/s). | 62.0 | m ² | | |
| | | <u>Hardware</u> | | | | |
| | F | Simpson strong H 2.5 tie or similar, fastened to either side of rafter along ring beam ; in accordance with details and specifications. | 68.0 | Nr. | | |
| | | <u>M60 Painting/Clear finishings</u> | | | | |
| | G | General surfaces of timber roof members; 3 coats emulsion paint; prepared and applied to trusses and fascia board | 115.0 | m ² | | |
| | | <u>R10 Rainwater Pipework/Gutters</u> | | | | |
| | H | Gutters; seamless pvc; straight; 50mm x 150mm including outlets fixed to fascia board and connected to pvc downpipe as specified and detailed. | 15.0 | m | | |
| | I | Downpipes; straight; pvc 100mm including bends; connected to pvc gutter outlets ; carried down to ground level and into perimeter drainage | 5 | m | | |
| | | TIMBER FRAMED ROOF STRUCTURE | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - STORAGE BUILDING | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-----|------|------|-------------|
| | 8.0 | DOORS & WINDOWS | | | | |
| | | <u>L20 Doors / Shutters / Hatches</u> | | | | |
| | | <u>Supply and install doors including 50mm x 150mm TPP framing and 25mm x 50mm TPP jambs as per general specifications</u> | | | | |
| | | <u>Supply and install metal doors</u> | | | | |
| | A | Door type 1; single leaf 900mm x 2000mm 6 panel coated metal doors. | 1 | No. | | |
| | B | Door type 2: double leaf 900mm x 2000mm 6 panel coated metal doors | 2 | No. | | |
| | | <u>M21 Ironmongery & Hardware</u> | | | | |
| | C | Commercial mortice lock set, cylinder type, lever handle both sides; stainless steel finish. | 3 | Nr. | | |
| | D | Bore-in cylinder deadbolt; stainless steel finish; locking and unlocking mechanisms (key outside/lever inside). | 3 | Nr. | | |
| | | 100mm x 75mmmm heavy duty door hinge; stainless steel | 10 | Nr. | | |
| | E | 150mm stainless steel tower bolts fastened top and bottom of anchor door. | 4 | Nr. | | |
| | | DOORS AND WINDOWS | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - STORAGE BUILDING | QTY | UNIT | RATE | AMOUNT € |
|----------|------|---|-------|----------------|------|-------------|
| | 9.0 | BUILDING FINISHES | | | | |
| | | Wall Finishes | | | | |
| | | <u>M Surface Finishes</u> | | | | |
| | | <u>M60 Painting/Clear Finishings</u> | | | | |
| | A | General surfaces of walls; 1 coat primer and 2 coats emulsion paint; prepared and applied to plastered exterior surfaces of blockwalls (m/s). | 140.0 | m ² | | |
| | B | General surfaces of walls; 1 coat primer and 2 coats emulsion paint; prepared and applied to plastered interior surfaces of blockwalls (m/s). | 63.0 | m ² | | |
| | | Floor Finishes | | | | |
| | | <u>M60 Painting/Clear Finishings</u> | | | | |
| | C | General surfaces of floors; 1 coat primer and 3 coats heavy duty floor paint; prepared and applied to screeded, properly cleaned floor surfaces. | 42.0 | m ² | | |
| | | <u>Shelving</u> | | | | |
| | D | Fabrication and installation of Shelving using interior plywood with TPP framing supported with L- shaped stainless steel brackets and finished with 1 coat wood primer and 2 coats emulsion paint; stainless steel screws. | 1 | L.S | | |
| | | BUILDING FINISHES | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - COMPOST SHED | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|------|----------------|------|-------------|
| | 4.0 | SUPERSTRUCTURE | | | | |
| | | <u>E10 In Situ Concrete</u> | | | | |
| | | <u>In situ concrete; 35 Mpa 28 day strength; reinforced; filled into form work and well vibrated around reinforcement</u> | | | | |
| | A | In reinforced concrete stiffener columns; | 1.0 | m ³ | | |
| | B | In reinforced concrete ring beams; | 1.0 | m ³ | | |
| | | <u>E20 Formwork for In Situ Concrete; dressed to give a smooth finish</u> | | | | |
| | C | To reinforced concrete stiffener columns; | 11.5 | m ² | | |
| | D | To reinforced concrete ring beams; | 10.0 | m ² | | |
| | | <u>E30 Reinforcement for In Situ Concrete</u> | | | | |
| | E | High tensile steel bar reinforcement; straight; 12mm diameter; in reinforced concrete stiffener columns. | 68.0 | Kgs | | |
| | F | High tensile steel bar reinforcement; bent; 12mm diameter; in reinforced concrete ring beam. | 56.0 | Kgs | | |
| | G | High tensile steel bar reinforcement; 10mm diameter; bent; as stirrups in stiffener columns. | 60.0 | Kgs | | |
| | H | High tensile steel bar reinforcement; 10mm diameter; bent; as stirrups in ring beams. | 40.0 | Kgs | | |
| | | REINFORCED CONCRETE FRAME & SUSPENDED FLOOR | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - COMPOST SHED | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|------|----------------|------|-------------|
| | 5.0 | SUPERSTRUCTURE CONT'D | | | | |
| | | BLOCKWORK & MASONRY | | | | |
| | | <u>F10 Brick/Block Walling</u> | | | | |
| A | | Hollow blockwalls; 150mm thick; vertical; built against concrete columns; to stretcher bond in C & S mortar 1 : 3 mix; including filling all cavities with 1:2:4 mix concrete in external walls. | 8.0 | m ² | | |
| | | <u>E30 Reinforcement for In Situ Concrete</u> | | | | |
| B | | High tensile steel bar reinforcement; straight; vertical; 12mm diameter; in blockwalling @ 400mm crs. horizontally | 18.0 | Kgs | | |
| | | <u>F30 Accessories for Blockwalling</u> | | | | |
| C | | Brickforce or equal approved heavy duty galvanized steel ladder type joint reinforcement with 150mm laps at ends and corners in 150mm thick block walls. | 12.0 | m | | |
| | | <u>E41 Worked Finishes</u> | | | | |
| D | | Hacking; surfaces of columns to form key for plaster | 11.5 | m ² | | |
| E | | Hacking; exterior surfaces of beams to form key for plaster | 10.0 | m ² | | |
| | | <u>M Surface Finishes</u> | | | | |
| | | <u>M20 Plastered / Rendered / Roughcast Coatings</u> | | | | |
| F | | Walls; 13mm thick plaster; 1:3 mix applied in 2 coats; float finish to surfaces of blockwork . | 16.0 | m ² | | |
| | | BLOCKWORK & MASONRY | | | | |
| | | Carried to Bill Summary | | | | |
| | | | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - COMPOST SHED | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|------|----------------|------|-------------|
| | 6.0 | TIMBER FRAMED ROOF | | | | |
| | | <u>G20 Carpentry/ Timber Framing / First Fixing</u> | | | | |
| | A | Rafters; pitched; 50mm x 150mm WPP common rafter @ 600mm c/c fixed to Ridge Board and tied to roof beams and attic floor beams | 28.8 | m | | |
| | B | Plywood sheathing; 16mm thick fixed to 50mm x 250mm common rafters | 16 | m ² | | |
| | C | Laths ≤ 300mm ;25mm x 75mm laths/purlins @ 1.0m centers fixed to rafters and sheathing (m/s) | 20 | m | | |
| | D | Fascia board; width ≤ 300mm; 50mm x 250mm treated softwood in fascia board to end of rafters. | 18.2 | m | | |
| | | <u>H72 Aluminium Sheet Coverings/Flashings</u> | | | | |
| | E | Roof coverings; nominal pitch 12-33 degrees; 24 gauge industrial profile; colour clad; single length sheets; fixed by screws with matching cadmium plated steel washers / high quality neoprene fittings; lapped by 2nr. flute (125mm approx.); fixed to timber purlins (m/s). | 16.0 | m ² | | |
| | | <u>Hardware</u> | | | | |
| | F | Simpson strong H 2.5 tie or similar, fastened to either side of rafter along ring beam ; in accordance with details and specifications. | 40.0 | Nr. | | |
| | | <u>M60 Painting/Clear finishings</u> | | | | |
| | G | General surfaces of timber roof members; 3 coats emulsion paint; prepared and applied to rafters and fascia board | 20.0 | m ² | | |
| | | <u>R10 Rainwater Pipework/Gutters</u> | | | | |
| | H | Gutters; seamless pvc; straight; 50mm x 150mm including outlets fixed to fascia board and connected to pvc downpipe as specified and detailed. | 10.0 | m | | |
| | I | Downpipes; straight; pvc 100mm including bends; connected to pvc gutter outlets ; carried down to ground level and into perimeter drainage | 5 | m | | |
| | | TIMBER FRAMED ROOF STRUCTURE | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - COMPOST SHED | QTY | UNIT | RATE | AMOUNT € |
|----------|------|---|-----|----------------|------|-------------|
| | 7.0 | FINISHES | | | | |
| | | <u>L20 Doors / Shutters / Hatches</u> | | | | |
| | | <u>Supply and install doors including 50mm x 150mm TPP framing and 25mm x 50mm TPP jambs as per general specifications</u> | | | | |
| | | <u>Supply and install metal doors</u> | | | | |
| | A | Door type 2: double leaf 1300mm x 1050mm timber framed barn door | 2 | No. | | |
| | | <u>M21 Ironmongery & Hardware</u> | | | | |
| | B | 150mm heavy duty hasp and staple provided with heavy duty keyed padlock | 4 | Nr. | | |
| | C | 100mm x 75mmmm heavy duty door hinge; stainless steel | 8 | Nr. | | |
| | D | 150mm stainless steel tower bolts fastened top and bottom of anchor door. | 4 | Nr. | | |
| | | <u>M Surface Finishes</u> | | | | |
| | | <u>M60 Painting/Clear Finishings</u> | | | | |
| | E | General surfaces of walls; 1 coat primer and 2 coats emulsion paint; prepared and applied to plastered exterior surfaces of blockwalls (m/s). | 8.0 | m ² | | |
| | | BUILDING FINISHES | | | | |
| | | Carried to Bill Summary | | | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - EXTERNAL WORKS | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|------|----------------|---------------|-------------|
| 6.0 | 1.0 | EXTERNAL WORKS | | | | |
| | | <u>Concrete Walkways & Paved Areas</u> | | | | |
| | A | 125mm thick gravel (20mm aggregate) pavement lightly compacted around Packing Facility and along Greenhouse Park | 1800 | m ² | | |
| | B | In situ concrete walkway; 1200mm wide x 125mm thick; 35 Mpa at 28 day strength concrete, well consolidated; A142 BRC mesh reinforcement; laid to falls with textured finish; rate to include excavation, levelling and formwork | 54 | m ² | | |
| | | <u>Wheel and Footbath</u> | | | | |
| | C | In situ concrete wheel and foot bath at entrance gate for bio-security; 35 Mpa at 28 day strength concrete, well consolidated into formwork; fibermesh reinforcement; laid to falls with textured finish; rate to include excavation, levelling and formwork | 1 | L.S | | |
| | | <u>Site Drainage</u> | | | | |
| | D | Earthen swale drains; 500mm wide x 300mm deep where specified; rate to include excavation, disposal, shaping and sloping; see detail 03/C-01 | 192 | m | | |
| | E | Earthen swale drains; 600mm wide x 300mm deep where specified; rate to include excavation, disposal, shaping and sloping; see detail 02/C-01 | 195 | m | | |
| | F | Reinforced concrete swale drain; 150mm thick; A142 BRC mesh reinforcement; 50mm thick concrete blinding; rate to include excavation, disposal and formwork; refer to detail 06/C-01 | 5 | m | | |
| | | <u>Septic Tank & Soakaway</u> | | | | |
| | G | Septic tank; overall size 3600mm x 2400mm x 2400mm deep complete including all piping, excavation and backfilling. | 1 | L.S | | |
| | H | Soakaway; 1.2m x 1.2m x 2m deep, comprising graded rock fill stone and polythene sheet cover; include for excavation and backfilling. | 1 | L.S | | |
| | | | | | To Collection | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - EXTERNAL WORKS | QTY | UNIT | RATE | AMOUNT € |
|----------|------|---|-----|------|---------------|-------------|
| | 2.0 | EXTERNAL WORKS & DRAINAGE cont'd | | | | |
| | | <u>Fencing and Gates</u> | | | | |
| | A | 1800mm high galvanized chain link fence; 9 gauge with 50mm diameter intermediate at 3000mm centers and 75mm corner galvanized fence posts set in concrete pits with 150mm x 150mm concrete at base of fence; include braces, top rail, barb arms and barbed wire along with all accessories installed in accordance with drawings and specifications. | 385 | m | | |
| | | <u>Gates to match chainlink fencing, rates to include for galvanize steel gate posts, hinges, locking bars and accessories.</u> | | | | |
| | B | 4.88m wide x 2.44m high double leaf gate | 1 | No. | | |
| | C | 0.90m x 2.44m high single leaf pedestrian gate | 1 | No. | | |
| | D | Holes for fence posts and gates, rate to include for excavation and concrete Grade 25 Mpa. | 140 | No. | | |
| | | <u>Landscaping</u> | | | | |
| | E | Provide 150mm topsoil landscaping and grassing around Packing Facility including rolling, watering, fertilizing and cutting until Practical Completion. | 1 | L.S | | |
| | | <u>Security Booth</u> | | | | |
| | F | Construction of a reinforced concrete and masonry security booth with timber roof, doors, windows and other finishes in accordance with drawings and specifications. | 1 | L.S | | - |
| | | <u>Protection</u> | | | | |
| | G | Protect the works in this section. | 1 | L.S | | |
| | | COLLECTION | | | To Collection | - |
| | | From: Page 1 | | | | - |
| | | From: Page 2 | | | | - |
| | | EXTERNAL WORKS | | | | |
| | | Carried to Bill Summary | | | | € - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - IRRIGATION SYSTEM | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-----|------|------|-------------|
| 8.0 | 1.0 | IRRIGATION SYSTEM | | | | |
| | | <u>Water Intake</u> | | | | |
| | A | Construction of reinforced concrete intake structure for collection of source water for irrigation to include chamber with washout valve and sluice valve. | 1 | L.S | | |
| | | <u>Transmission Line</u> | | | | |
| | B | Supply and install (50mm) diameter polyethylene transmission line from intake to Greenhouse Park site including fittings, valves and any required excavation and backfilling. | 1 | L.S | | |
| | | <u>Distribution Network</u> | | | | |
| | C | Supply and install (20mm) diameter polyethylene distribution lines from transmission line to individual greenhouses including fittings, valves and any required excavation and backfilling. | 1 | L.S | | |
| | | <u>Equipment</u> | | | | |
| | D | All a Provisional Sum for the supply and installation of equipment for irrigation/fertigation of greenhouses as per specifications. 102 No. inline dripper lines 204 No. open/close minivalves 17 No. self powered controllers 34 No. proportional dosing pums with mixing tanks 17 No. electric valves 1 No. water pump 1 No. water filter | 1 | L.S | | - |
| | | <u>Programmer</u> | | | | |
| | E | Supply and installation of Programmer as per specification and features including: 40 watering groups Control of 6 to 94 valves Control of 2 to 18 motors Control of 2 stations (fertilization and clean water) Simultaneous or sequential valve control Control of mixing tank Watering by time or by volume EC and pH control Alarm management; starting at fixed times, cyclically or by date Starting according to the watering flow meter Forced operation switches on every output Balance module with saving every 4 weeks Drainage and pre-mixing options | 1 | L.S | | - |

| BILL NO. | PAGE | GREENHOUSE PARK FACILITIES MEASURED WORKS - IRRIGATION SYSTEM | QTY | UNIT | RATE | AMOUNT € |
|----------|------|--|-----|------|------|-------------|
| | F | <p data-bbox="364 263 552 294">Utility Building</p> <p data-bbox="364 359 1211 541">Construction of reinforced concrete and masonry Utility Building to house pump, filter and control equipment for fertigation and irrigation system; comprising shallow strip footing, masonry walls, vent blocks, metal door and lean-to roof along with other other finishes in accordance with drawings and specifications.</p> <p data-bbox="364 828 620 859">IRRIGATION SYSTEM</p> | 1 | L.S | | |
| | | Carried to Bill Summary | | | € | - |

**GREENHOUSE PARK FACILITIES
GRAND SUMMARY**

| BILL NO. | DESCRIPTION | AMOUNT EURO |
|-----------------|-------------------------------|------------------------|
| 1 | Preliminaries | € - |
| 2 | Site Preparation Works | € - |
| 3 | Packing Facility | € - |
| 4 | Storage Building | € - |
| 5 | Compost Shed | € - |
| 6 | External Works | € - |
| 7 | Greenhouses | € - |
| 8 | Irrigation System | € - |
| | Sub Total Main Summary | € - |
| | VAT - 15% | € - |
| | TOTAL TO BID | € - |