

Llangennech Park Muga  
FAO Mr Emyr Williams

Tarmacadam Muga

Budget Quotation



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Dated: 13-Sep-22

| Item       | Description   | Quantity | Unit  | Summary   |
|------------|---|----------|-------|-----------|
|            | <b>Construct a new Third Generation (3G) artificial pitch.</b>  |          |       |           |
|            | <b>Pitch to be FIFA approved 50mm Long Pile 3G suitable for FIFA Quality concept for schools and community Football</b>   |          |       |           |
|            | <b>Assumes the following program:-</b><br>Start Onsite - 2022<br>Handover - 2022  |          |       |           |
| i          | <b>Assumes greenfield site with no ground obstructions and free from services</b>   |          |       |           |
| ii         | <b>Excludes planning submission and obtaining permissions</b>   |          |       |           |
| iii        | <b>Excludes SAB implications (to be determined via Client discussion with local authority drainage engineer) - potential solutions costed in Options menu</b>                                 |          |       |           |
| iv         | <b>Assumes ground bearing pressure of 5% achieved at formation level</b>  |          |       |           |
| v          | <b>Assumes ground is free from contaminants or substances harmful to health &amp; that all materials for disposal off site are classified as inert</b>  |          |       |           |
| vi         | <b>Assumes suitable power supply is available at pitchside</b>  |          |       |           |
| vii        | <b>Area</b>   |          |       |           |
|            | Overall Length including run-off (44 yads advised by Client plus 3m run off)  | 45       | Lin.m |           |
|            | Overall Width including run-off (40 yds advised by Client plus 3m run off)  | 30       | Lin.m |           |
|            | No perimeter footpath allowed   |          |       |           |
|            | SubTotal  | 1,350    | m2    |           |
|            | Perimeter   | 150      | Lin.m |           |
| <b>1.0</b> | <b>Preliminaries</b>  |          |       |           |
| a          | Prepare H&S file, site management, site engineering, transport of plant and equipment, signage, as built drawings and O&M Manuals. Welfare facilities, Secure compound and storage facilities | 1        | Sum   |           |
|            | <b>Subtotal</b>   |          |       | 12,442.50 |
| <b>2.0</b> | <b>Site Preparation</b>   |          |       |           |
| a          | Take down and remove from site existing play equipment. Break out play surfacing & dispose off site   | 1        | Sum   |           |
| b          | Take down existing bow top fencing including concrete foundation & dispose off site   | 150      | Lin.m |           |

|             |  |       |       |           |
|-------------|--|-------|-------|-----------|
| c           | Application of total herbicide to grass sward; short grass cut prior to stripping; rotovate sward into full depth of soil  | 1,350 | m2    |           |
| d           | Strip topsoil; average depth 175mm; set aside in temporary stock piles   | 1,350 | m2    |           |
| e           | Allow the provisional sum of £1,000 for geotechnical compaction testing at intervals during the progress of the works  | 1     | Sum   |           |
| f           | Ripping existing formation at 500mm centres; 600mm deep to relieve over compaction; re-roll with 20 tonne roller; compaction as work proceeds  | 1,350 | m2    |           |
| g           | Sub-soil trimming, cutting and filling earthworks to proposed levels; trimming margins, compaction as work proceeds  | 1,350 | m2    |           |
| h           | Disposal of surplus topsoil off site   | 236   | m3    |           |
| i           | Disposal of surplus subsoil off site - assumed depth 225mm   | 304   | m3    |           |
| j           | Proof roll formation and carry out CBR tests (1no./1000m2). Formation to achieve +5% CBR Value.  | 1,350 | m2    |           |
| k           | Laser grade the formation to achieve the required falls ready for sub base installation.   | 1,350 | m2    |           |
|             | <b>Subtotal</b>  |       |       | 34,769.91 |
| <b>3.0</b>  | <b>Pitch Drainage</b>  |       |       |           |
| <b>Note</b> | <b><i>Drainage system connects to Outlet provided in low corner</i></b>  |       |       |           |
| a           | Install 100mm dia perforated pitch laterals; Upvc land drainage coil @ 10m centres at 300mm depth below subsoil formation. Backfill to surface with 14mm clean stone.                              | 135   | Lin.m |           |
| b           | Install 150mm dia perforated main drain; Twin wall smooth bore plastic perforated pipe with connecting collars; at 350mm depth below subsoil formation. Backfill to surface with 14mm clean stone. | 45    | Lin.m |           |
| c           | Install proprietary drainage junctions to connect laterals to main drainage.   | 6     | No.   |           |
| d           | Supply and install 1050mm dia catchwater pit at corner: pre-cast concrete chamber rings; 500mm sump; Heavy duty D400 cast iron cover and frame   | 1     | No.   |           |
| e           | allowance for hydrobreak   | 1     | No.   |           |
| f           | Connection into existing drainage system   | 1     | No.   |           |
|             | <b>Subtotal</b>  |       |       | 8,528.63  |
| <b>4.0</b>  | <b>Stone Sub Base (Reduced Fines Type3)</b>  |       |       |           |
| <b>Note</b> | <b><i>Total depth of 450mm to be installed, final 50mm layer will be laid using Laser graded levelling equipment to achieve required tolerances.</i></b>   |       |       |           |
| a           | Supply and install suitable geotextile to subsoil formation. Terram 1000 or equivalent   | 1350  | m2    |           |

|   |  |      |       |                  |
|---|--|------|-------|------------------|
| b   | Supply 250mm depth of reduced fines Type 3; DoT clause 805; spread to the playing area. Allow to evenly compact and laser grade. Minimum permeability 3,000mm/hour   | 1350 | m2    |                  |
| c   | Supply and install 150x50mm pre-cast concrete path edgings to the perimeter of the pitch. Allow for 100mm bed and haunch in concrete.  | 300  | Lin.m |                  |
| d   | Supply and spread final 50mm layer of reduced fines Type 3 using LGP laser graded machinery; laid to achieve final level tolerance +/- 10mm.   | 1350 | m2    |                  |
| <b>Subtotal</b>   |  |      |       | <u>37,697.63</u> |
| <b>5.0 Porous Macadam</b>   |  |      |       |                  |
| a   | Supply and lay 2 coat porous macadam comprising 40mm layer of binder; 20mm aggregate; 25mm layer of surface coat; 6mm aggregate; limestone; open graded macadam to BS EN13108-7. Pitch base; Ensure +/-10mm of the design level when checked with a 3m straight edge no deviation over 6mm. Maximum joint variation 2mm when fully compacted   | 1350 | m2    |                  |
| c   | Allow to colour coat the court with two coats of colour coating compound; colour from standard palette   | 1350 | m2    |                  |
| d   | Allow to line mark the pitch using polyurethane paint. 2no. Netball Court, 2 no. basketball, 2 no. football  | 1    | Sum   |                  |
| <b>Subtotal</b>   |  |      |       | <u>49,730.63</u> |
| <b>7.0 Equipment</b>  |  |      |       |                  |
| Supply and erect the following equipment  |  |      |       |                  |
| a   | Free standing regulation adjustable netball goals complete with heavy duty ring  | 2    | Set   |                  |
| b   | Supply & install cantilevered basketball goals set in concrete foundation  | 2    | Set   |                  |
| c   | Supply & install recessed goals  | 2    | Set   |                  |
| <b>Subtotal</b>   |  |      |       | <u>17,115.00</u> |
| <b>8.0 Perimeter Fence; Twin Wire Mesh Panel fence system to BS 1722 part 14; Re-bound spec.</b>      |  |      |       |                  |
| a   | Supply and install a Twin wire mesh panel fence system; Galvanised rolled steel posts to BS EN 10305-5 E220 and powder coated to BS EN 13438; <b>3.00m high</b> ; Posts; coated green RAL 6005; 800 x 40 x 3.6mm wall; Clad with mesh panels consisting of 6mm diameter vertical wires at 50mm centres and twin 8mm diameter horizontal wires at 200mm centres forming a 200 x 50 aperture; <b>lower section upgraded to re-bound apperture 67 x 50</b> 3.03mm panel (50mm ground clearance, ) | 150  | Lin.m |                  |
| Excavate suitable footings and backfill with C25 grade concrete to the recommended sizes as follows:- |  |      |       |                  |

|             |  |     |       |                   |
|-------------|--|-----|-------|-------------------|
| b           | Allow for 3.0m wide access gates; steel hollow section frame; mesh cladding to match general fencing; drop bolts and lockable slide latch  | 1   | No.   |                   |
| c           | Allow for 1.2m wide pedestrian access gates; steel hollow section frame; mesh cladding to match general fencing; drop bolts and lockable slide latch   | 1   | No.   |                   |
|             | <b>Subtotal</b>  |     |       | 31,290.00         |
| <b>9.0</b>  | <b>De-Tox Area and infill retention measures</b>   |     |       |                   |
| a           | Supply and install 3.00m long x 1m wide steel grid floor grate complete with drainage sump and outlet; grill bolted to edge channel for ease of lifting for maintenance                      | 1   | No    |                   |
| b           | Supply and install 1.200m long x 1m wide steel grid floor grate complete with drainage sump and outlet; grill bolted to edge channel for ease of lifting for maintenance                     | 1   | No    |                   |
| b           | Supply and install Upright boot scraper/brush set complete with hand holding bar; set in concrete foundations.   | 1   | No.   |                   |
|             | <b>Subtotal</b>  |     |       | 3,018.75          |
|             | <b>Carried Forward To Summary</b>  |     |       | <b>194,593.04</b> |
|             |  |     |       | <b>Plus VAT</b>   |
|             | <b>OPTIONS</b>   |     |       |                   |
| <b>10.0</b> | <b>Floodlighting in accordance with the Sport England and CIBSE guidance notes</b>   |     |       |                   |
| <b>Note</b> | <b><i>Supply and install a Floodlight System to achieve 200Lux maintained level with a uniformity level of 0.6; for class II Rugby and Class II football;</i></b>                            |     |       |                   |
| <b>Note</b> | <b><i>Assumes suitable mains supply is available at pitch corner.</i></b>  |     |       |                   |
| <b>Note</b> | <b><i>Assumes ground bearing pressure no less than 150 kn/m2</i></b>   |     |       |                   |
| <b>Note</b> | <b><i>Loadings: 72A/50Kva - 3 phase - metal halide</i></b>   |     |       |                   |
| <b>Note</b> | <b><i>Loadings: 40A/28.8Kw - 3 phase - LED</i></b>   |     |       |                   |
| <b>Note</b> | <b><i>Excludes raise and lowering winch</i></b>  |     |       |                   |
|             | <b><i>Excludes remote switching</i></b>  |     |       |                   |
| a           | Supply and install 1.5m x 1.5m x 1.5m concrete; C30; footings for the columns, allow for casting holding down bolts into concrete.   | 4   | No.   |                   |
| b           | Supply and install 100mm dia ducting around the pitch to take floodlight cables; Install SWA multi core cables to column positions   | 120 | Lin.m |                   |
| c           | Supply and install 4No. 15m high raise and lower galvanised steel columns onto previously constructed bases. Allow to connect all cables into base of columns.                               | 1   | Sum   |                   |
| d           | Supply and fit LED fittings.   | 1   | Sum   |                   |
| e           | Install Galvanised steel pitch side feeder pillar with weatherproof control switches; set into concrete plinth; provide additional features - photo cell - seven day programmable time clock | 1   | Sum   |                   |

|   |  |       |          |           |
|---|--|-------|----------|-----------|
| f | Allow a Provisional sum of £1000 for providing an override switch to a remote location (assume ducting provided to pitch side location)                          | 1     | Sum      |           |
| g | Certification, testing and Notification to national technical and safety standards by a NICEIC approved electrical contractor                                    | 1     | Sum      |           |
| h | Installation of draw pit chamber for cable installations   | 7     | Nr       |           |
|   | <b>Subtotal</b>  |       |          | 50,271.25 |
|   | <b>Potential Risk Options</b>  |       |          |           |
| a | Extra Over for impermeable membrane for SAB possible compliance; taped joints; lined trenches. Discussions with local authority drainage engineer will determine | 1,350 | m2       | 16,301.25 |
| b | Supply additional 150mm depth of reduced fines Type 3 for SAB increased attenuation. Discussions with local authority drainage engineer will determine           | 1,350 | m2       | 13,820.63 |
| c | EO item for installation of Geogrid membrane in event of CBR at formation level not achieving minimum 5%   | 1,350 | m2       | 6,166.13  |
| d | Provide incoming electrical supply to pitchside  | 1     | Prov Sum | 5,000.00  |