

Llangennech Park Muga  
 FAO Mr Emyr Williams

**SOUTH WALES  
 SPORTS GROUNDS**  
 SUMMERLEAZE ACRES . MAGOR  
 MONMOUTHSHIRE . NP26 3DE  
 TEL: 01633 880492

**Summary**

**Dated:** 13-Sep-22

Item	Description	Quantity	Unit	Summary
<b>SUMMARY</b>				
1.0	3G PITCH - 45m x 30	1	Sum	231,400.79
2.0	TARMACADAM MUGA - 45m x 30m	1	Sum	194,593.04
<u>OPTIONS</u>				
	Floodlighting	1	Sum	50,271.25
Please see Risk Items for Potential SAB / Ground Implications				
All rates are nett & subject to vat				



Registered in England as South Wales Sports Grounds Contractors Ltd  
 Registered No. 832363, Vat No. 136 5007 90  
 Directors: S.P McDermott , N.D Belsham, R Jones

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3G Football Pitch

Budget Quotation



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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> Start Onsite - 2022 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	FIFA Quality Compliance & World Rugby testing within 3 months of project completion	1	Sum	
	<b>Subtotal</b>			18,165.00
<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	

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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>Drainage system connects to Outlet provided in low corner</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.	

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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>Total depth of 450mm to be installed, final 50mm layer will be laid using Laser graded levelling equipment to achieve required tolerances.</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 achive final level tolerance +/- 10mm.	1350	m2	
	<b>Subtotal</b>			37,697.63
<b>5.0</b>	<b>Porous Macadam</b>			
a	Supply and lay a <b>40mm layer</b> of 10mm aggregate; limestone; open graded macadam to BS EN13108-7.	1350	m2	
	<b>Subtotal</b>			22,042.13
<b>6.0</b>	<b>Shockpad &amp; Synthetic Carpet</b>			
	<b>Warranty Period (carpet) 8 years (30 hrs of use per week)</b>			
a	Allow to supply and lay a 20mm insitu/prefabricated rubber shockpad; minimum binder content 10% laid to required tolerances; minimum tensile strength 0.12Mpa and achieve 30% elongation when tested in accordance with EN 12230:2003	1,350	m2	
b	Allow to supply and lay a 3G Synthetic surface; 60mm Dual fibre monofilament polyethelene pile; D-tex 12000; Pile weight approx 1500 - 1700g/m2 total weight 2200g/m2 3G synthetic surface; FIFA compliant; with suitable punctured drainage holes to achieve 180mm per hour to EN 12616; Pile anchorage 30N in accordance with ISO 4919; seamed using 2 part polyurethane compoung glue on approved seaming tape; 300mm wide; approx 0.5kg glue per metre. Minimum seam strength in accordance with BS EN 12228 method 2 - 25 N/100mm	1,350	m2	

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c	Allow to supply and spread to required infill rates, Sub-rounded - rounded non abrasive sand; particle range 0.2 - 1.0mm with no more than 30% less than 0.315mm; SBR rubber infill; 0.8-2.5 mm compliant with the REACH regulations Annex 17 - Entry 28; spread and brushed into surface using specialist equipment to the stipulated rates of fill.	1	Sum	
d	Allow to cut and inlay Primary Football lines. seamed using 2 part polyurethane compounding glue on approved seaming tape; 400mm wide; approx 0.6kg glue per metre.; maximum deviation on lines - 20mm	500	Lin.m	
	<b>Subtotal</b>			52,657.50
<b>7.0</b>	<b>Equipment</b>			
	Supply and erect the following equipment			
a	Supply & install recessed goals	2	Set	
	<b>Subtotal</b>			8,505.00
<b>8.0</b>	<b>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 aperture 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>			

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Item	Description	Quantity	Unit	Summary
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>10.0</b>	<b>12 months maintenance During first 12 months of pitch use</b>			
a	Routine/weekly drag brushing to redistribute infill and lift pile; We will visit site and carry out a non-mechanical brush over the whole area to redistribute the infill and lift the pile. This process can take up to two hours depending on pitch size.	50	visits	
b	Surface power clean to remove contaminants and to lift pileWe will visit site and carry out a surface clean using our own powered rotary cleaning equipment. This operation is to remove surface contaminants, organic matter and to lift the pile. This process can take up to two and a half hours depending on pitch size.	3	visits	
c	Deep power clean to remove finer contaminants and to decompact the infill; We will visit site and carry out a deep pile power clean using our own powered rotary cleaning equipment. This operation may require an initial surface clean followed by a deeper pile clean - this removes and re-applies infill while extracting dust and smaller contaminants along with larger contaminants and organic matter. The surface is de-compacted and the pile lifted during this process. This process takes approximately half a day depending on pitch size.	1	visits	
d	Weedkilling to general areas and margings; While on site we will carry out a selective weed kill along the perimeter of the pitch. This can coincided with any cleaning operation. This is to be carried out between April and September.	2	visits	
e	Annual restore; check infill depths and top up levels as required - We will visit site and carry out a surface and deep pile clean using our own powered cleaning equipment. Infill levels are then checked and new materials are added where necessary, or existing infill removed. The pitch is then drag brushed to even the infill layer. This process can take a whole day depending on pitch size.	1	visits	
	<b>Subtotal</b>			14,726.25

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	<b>Carried Forward To Summary</b>			<b>231,400.79</b>
				<b>Plus VAT</b>
	<b>OPTIONS</b>			
11.0	<b>Floodlighting in accordance with the Sport England and CIBSE guidance notes</b>			
<i>Note</i>	<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>			
<i>Note</i>	<i>Assumes suitable mains supply is available at pitch corner.</i>			
<i>Note</i>	<i>Assumes ground bearing pressure no less than 150 kn/m2</i>			
<i>Note</i>	<i>Loadings: 72A/50Kva - 3 phase - metal halide</i>			
<i>Note</i>	<i>Loadings: 40A/28.8Kw - 3 phase - LED</i>			
<i>Note</i>	<i>Excludes raise and lowering winch</i>			
	<i>Excludes remote switching</i>			
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>			<b>47,751.25</b>
	<b>Potential Risk Options</b>			

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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