



**An Roinn Tithíochta,  
Rialtais Áitiúil agus Oidhreachta**  
Department of Housing,  
Local Government and Heritage

## **Subsites WK28, WK29, Wicklow Mountain SAC Restoration Works**

### **Phase 1**

**National Parks & Wildlife Service of the Department of Housing, Local  
Government and Heritage**

**Bill of Quantities**



# DOCUMENT CONTROL SHEET

Client	National Parks & Wildlife Service					
Project Title	Subsite WK28 & WK29, Wicklow Mountain SAC Restoration Works - Phase 1					
Document Title	Bill of Quantities					
Document No.	NPWS-BBRP-03-BOQ					
This Document Comprises	DCS	TOC	Text	List of Tables	List of Figures	No. of Appendices
	1	-	17	-	-	-

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Ref	Description	Total
	<b>General Summary</b>	
<b>1</b>	<b>PREAMBLE</b>	
<b>2</b>	<b>GENERAL ITEMS - Contractual Requirements</b>	
<b>3</b>	<b>GENERAL ITEMS - Specific Requirements</b>	
<b>4</b>	<b>CLASS D: RESTORATION WORKS WK28 A</b> Part 1: Construction of Peat Dams	
<b>5</b>	<b>CLASS D: RESTORATION WORKS WK28 B</b> Part 1: Construction of Peat Dams Part 2: Construction of Timber Sediment Traps/Leaky Dams	
<b>6</b>	<b>CLASS D: RESTORATION WORKS WK29 A</b> Part 1: Construction of Peat Dams Part 2: Construction of Timber Sediment Traps/Leaky Dams	
<b>7</b>	<b>CLASS D: RESTORATION WORKS WK29B</b> Part 1: Construction of Peat Dams Part 2: Construction of Timber Sediment Traps/Leaky Dams	
	<b>Tender Total</b>	
	<b>Add Construction VAT @ 13.5%</b>	
	<b>Total</b>	

Ref	Description	Qty	Unit	Rate	Total
1A	<p style="text-align: center;"><b>Preamble</b></p> <p><b>PREMABLE</b></p> <p><b><u>1) METHOD OF MEASUREMENT</u></b></p> <p>(i) This Bill of Quantities has, unless otherwise expressly stated in respect of any item or items, been measured in accordance with the principles of the Civil Engineering Standard Method of Measurement - C.E.S.M.M. 4th edition (2012). the Contractor must clearly understand that under no circumstances will he be entitled to any claim where it has been considered necessary in the formalisation of this Bill of Quantities to deviate from the said C.E.S.M.M.</p> <p>(ii) The principles of C.E.S.M.M. and notes relevant to measurements at the end of each Work Classification - Section 8 shall be deemed to be part of the preamble. They shall be adhered to by the Tenderer and will be used in the measurement of the works pursuant to Clause 46(1) of the Conditions of Contract.</p> <p>(iii) In certain circumstances it has been necessary to deviate from the measurement principles as laid down by the C.E.S.M.M. In these circumstances in accordance with Note 5.4 of the C.E.S.M.M reference is made to this paragraph of the preamble</p> <p>(iv) For the purposes of measurement, where encountered in excavation, boring or driving, the term "rock" shall be described in the appropriate clause of the specification.</p> <p>(v) Items in the Bills of Quantities have been generally set out in accordance with the recommended Classifications in the C.E.S.M.M. except that items have not been code numbered.</p> <p><b><u>2) SPECIFICATION</u></b></p> <p>To avoid long descriptions and repetitions, descriptions of measured items refer to the Specification by using the words "As Specified" or as per "Specification Clause No."</p>		Note		

Ref	Description	Qty	Unit	Rate	Total
1B	<p><b><u>3) DRAWINGS</u></b></p> <p>To avoid long descriptions and repetition, descriptions of measured items refer to the Drawings by using the words "as detailed" or "as detailed on Drawing No.".</p>		Note		
1C	<p><b><u>4) ABBREVIATIONS</u></b></p> <p>The following abbreviations may have been used in the description of items in the Bill of Quantities.</p> <p>B.S.^^^^British Standards  E.D.^^^^or External Diameter  O.D.^^^^for Outside Diameter  ex. ^^^^^for Exceeding  Ha.^^^^^for Hectare  Hr.^^^^^^for Hour  I.S.S.^^^for Irish Standard Specification  Kg.^^^^^for Kilogramme  m^^^^^^^for Metre  m2^^^^^^^for Square Metre  m3^^^^^^^for Cubic Metre  (m.s.)^^^for (Measured separately)  N.B.^^^^^for Nominal Bore  n.e.^^^^^for Not Exceeding  Nr.^^^^^^for Number  Wk.^^^^^^for Week</p>		Note		
1D	<p><b><u>5) CLASSIFICATION OF SIZES OF EXISTING SERVICES</u></b></p> <p>Classification of sizes where described shall be read as follows:</p> <p>Small bore pipe = 12mm to 100mm  Medium bore pipe = 100 to 225mm  Large bore pipe = 225mm to 450mm  Extra Large pipe = 450mm to 900mm</p>		Note		
1E	<p><b><u>6) CONTRACT DOCUMENTS</u></b></p> <p>The attention of the Contractors tendering is directed to the General Conditions of Contract, the Specification, the Drawings, the Form of Tender together with the Appendix thereto and the Instruction to Tenderers and these documents shall be read in conjunction with each other and with the bill of quantities and shall be deemed to be mutually explanatory.</p>		Note		

Ref	Description	Qty	Unit	Rate	Total
1F	<p><b><u>7) QUANTITIES</u></b></p> <p>(I) The Bill of Quantities has, unless otherwise expressly stated in respect of any specified item or items, been measured in accordance with the principles of the Civil Engineering Standard Method of Measurement - C.E.S.M.M. 4th edition (2012). The Contractor must clearly understand that under no circumstances will they be entitled to make a claim where it has been considered necessary in the formalisation of this Bill of Quantities to deviate from the said C.E.S.M.M.</p>		Note		
1G	<p><b><u>8) FINAL PAYMENT</u></b></p> <p>Final Payment will be made on the basis of measured work only, at the rates and prices entered by the Contractor against the several items of the Bill of Quantities in accordance with the directions contained in the last preceding clause</p>		Note		
1H	<p><b><u>9) EXCAVATION</u></b></p> <p>Bulk excavation shall be measured as the nett cubic content in cubic meters of the voids to be formed by the removal of the materials to be excavated in accordance with the Specification and Drawings and no allowance will be made for sloping sides or for bulking after the materials have been excavated. Trench excavation shall be to the dimensions and sizes as detailed in the relevant Clauses in the specification</p>		Note		
1J	<p><b><u>14) ATTENDANCES</u></b></p> <p>The Contractor may be required to provide attendance to various contractors as set out in specification. Payment for same will be agreed prior to work commencing</p>		Note		
Total Preamble to Summary					

Ref	Description	Qty	Unit	Rate	Total
	<b>Contractual Requirements</b>				
	<b>GENERAL ITEMS</b>				
	<b>CLASS A - CONTRACTUAL REQUIREMENTS</b>				
	<b>INSURANCES (DEVIATION FROM C.E.S.M.M)</b>				
2A	Employers Liability Insurance in accordance with Tender & Schedule Requirements	1	Sum		
2B	Public Liability Insurance in accordance with Tender & Schedule Requirements	1	Sum		
	<b>CONSTRUCTION REGULATIONS</b>				
2C	Comply with other Conditions of Contract and any amendments thereto as per Specification	1	Sum		
2D	Comply with Safety, Health and Welfare at work (Construction) Regulations 2013 as per Specification	1	Sum		
2E	Provide for the services of a project supervisor for the construction stage pursuant to the latest safety, health and welfare at work (construction) Regulations 2013, SI No. 291 of 2013 or as updated. Comply with the Preliminary Health and Safety Plan and Specification	1	Sum		
2F	Comply with General Application Regulations as per Specification	1	Sum		
2G	Co-ordinate all contractors and gather all relevant information from designers and contractors and deliver to PSDP for inclusion to Safety File to client in accordance with preliminary Health and Safety Plan as per Specification	1	Sum		
2H	Contractor to provide for all personnel having the appropriate and certified training and that records of same are copied to Employer's Representative	1	Sum		
2J	Contractor to carry out and coordinate all temporary works design, where required	1	Sum		
2K	Contractor to provide Method Statement(s) in accordance with Specification	1	Sum		
2L	Contractor to provide Certification in accordance with the Specification	1	Sum		
	Total Contractual Requirements to Summary				

Ref	Description	Qty	Unit	Rate	Total
	<b>Specific Requirements</b>				
	<b>GENERAL ITEMS</b>				
	<b><u>CLASS A - SPECIFIED REQUIREMENTS</u></b>				
	<b>PREVENTION OF NUISANCE</b>				
3A	Precautions to prevent nuisance as per Specification	1	Sum		
	<b>RESTRICTED CONDITIONS AND ACCESS</b>				
3B	Working under special conditions and with restricted access, works should be carried out using only approved low Ground Bearing Pressure plant (with psi of <2.0)	1	Sum		
	<b>SUPERVISION</b>				
3C	Site supervision as per Specification	1	Sum		
	<b>ATTENDANCE UPON THE ENGINEERS STAFF</b>				
3D	Attendance for period of the works as per Specification	1	Sum		
	<b>DEWATERING</b>				
	<b>Dewatering the works as per Specification</b>				
3E	Establishment and removal	1	Sum		
3F	Maintenance	1	Sum		
	<b>SITE CONDITION SURVEY</b>				
	<b>WARNING SIGNS AND WARNING LIGHTS</b>				
3G	Establishment and removal of warning signs and lights as per Specification	1	Sum		
3H	Maintenance of warning signs etc.	1	Sum		
	<b>HAUL ROUTES AND SITE ACCESS</b>				
3J	Mobilisation, maintenance and demobilisation access to site as per Specification	1	Sum		
3K	Placing of Cl 804 to make good any site access tracks at end of works	1	Sum		
	<b>SITE CLEARANCE</b>				
3L	General Site Clearance	1	Sum		
	<b>SANITARY ACCOMMODATION</b>				

Ref	Description	Qty	Unit	Rate	Total
3N	Sanitary accommodation for work people as per Specification	1	Sum		
	<b>SITE SECURITY AND FENCING</b>				
3P	Contractor to provide site security and protection of their plant, equipment and materials in accordance with the Specification	1	Sum		
	<b>WARNING SIGNS</b>				
3Q	Contractor to provide and erect warning signs (A2 size) for deep water	4	No.		
	<b>AS CONSTRUCTED DRAWINGS</b>				
3R	Assist and provide attendance to Employer's Representative in preparation of As Constructed Drawings as per Specification	1	Sum		
	<b>PROGRAMMING THE WORKS</b>				
3S	Programming the works in accordance with Specification	1	Sum		
	<b>ACCOMMODATION OF ARCHAEOLOGICAL CONTRACTOR</b>				
3T	Accommodation of archaeological contractor as per Specification, where required	1	Sum		
	<b>TEMPORARY ACCESS AND GROUND PROTECTION</b>				
3U	Supply, install, maintain, relocate and remove bog mats for temporary access over peat, including all handling and making good as per specification, where required	10	M2		
	Total Specific Requirements to Summary				

Ref	Description	Qty	Unit	Rate	Total
	<b>CLASS D: RESTORATION WORKS WK28 A</b>				
	<i>See Restoration Plan Drawing No. NPWS-BBRP-02-05</i>				
	<b>Part 1: Construction of Peat Dams</b>				
4A.1	Construction of small peat dams as per Drawing NPWS-BBRP-02-P3-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width < 1.0m	26	No.		
4A.2	Construction of Medium peat dams as per Drawing NPWS-BBRP-02-P3-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width > 1.0m ≤ 1.5m	3	No.		
4A.3	Construction of Medium peat dams as per Drawing NPWS-BBRP-02-P3-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width > 1.5m ≤ 2.0m	10	No.		
	Total Restoration Works Area WK28 A				

Ref	Description	Qty	Unit	Rate	Total
	<b>CLASS D: RESTORATION WORKS WK28 B</b>				
	<i>See Restoration Plan Drawing No. NPWS-BBRP-02-05</i>				
	<b>Part 1: Construction of Peat Dams</b>				
4A.1	Construction of small peat dams as per Drawing NPWS-BBRP-02-5 Grip/Gully Peat Dam. Drain depth < 1.0m, Width < 1.0m	140	No.		
4A.2	Construction of Medium peat dams as per Drawing NPWS-BBRP-02-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width > 1.0m ≤ 1.5m	101	No.		
4A.3	Construction of Medium peat dams as per Drawing NPWS-BBRP-02-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width > 1.5m ≤ 2.0m	21	No.		
	<b>Part 2: Construction of Timber Sediment Traps/Leaky Dams</b>				
4B.1	Construction of timber sediment traps/leaky dams as per Drawing NPWS-BBRP-02-17. Height ~1.0m, Width <1.0m (Average of 4no Timber Planks 250mm x 37.5mm x 2.0m per Dam + Stakes)(Located in Machinery inclusion Zone)	22	No.		
4B.2	Construction of timber sediment traps/leaky dams as per Drawing NPWS-BBRP-02-17. Height ~1.0m, Width >1.0m ≤ 1.5m (Average of 4no Timber Planks 250mm x 37.5mm x 2.5m per Dam + Stakes)(Located in Machinery inclusion Zone)	33	No.		
4B.2	Construction of timber sediment traps/leaky dams as per Drawing NPWS-BBRP-02-17. Height ~1.0m, Width >1.5m ≤ 2.0m (Average of 4no Timber Planks 250mm x 37.5mm x 3m per Dam + Stakes)(Located in Machinery inclusion Zone)	9	No.		
	Total Restoration Works Area WK28 B				

Ref	Description	Qty	Unit	Rate	Total
	<b>CLASS D: RESTORATION WORKS WK29 A</b>				
	<i>See Restoration Plan Drawing No. NPWS-BBRP-02-06</i>				
	<b>Part 1: Construction of Peat Dams</b>				
4A.1	Construction of small peat dams as per Drawing NPWS-BBRP-02-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width < 1.0m	11	No.		
4A.2	Construction of Medium peat dams as per Drawing NPWS-BBRP-02-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width > 1.0m ≤ 1.5m	22	No.		
	<b>Part 2: Construction of Timber Sediment Traps/Leaky Dams</b>				
4B.1	Construction of timber sediment traps/leaky dams as per Drawing NPWS-BBRP-02-17. Height ~1.0m, Width <1.0m (Average of 4no Timber Planks 250mm x 37.5mm x 2.0m per Dam + Stakes)(Located in Machinery inclusion Zone)	8	No.		
4B.2	Construction of timber sediment traps/leaky dams as per Drawing NPWS-BBRP-02-17. Height ~1.0m, Width >1.0m ≤ 1.5m (Average of 4no Timber Planks 250mm x 37.5mm x 2.5m per Dam + Stakes)(Located in Machinery inclusion Zone)	33	No.		
4B.2	Construction of timber sediment traps/leaky dams as per Drawing NPWS-BBRP-02-17. Height ~1.0m, Width >1.5m ≤ 2.0m (Average of 4no Timber Planks 250mm x 37.5mm x 3m per Dam + Stakes)(Located in Machinery inclusion Zone)	2	No.		
	Total Restoration Works Area WK29A				

Ref	Description	Qty	Unit	Rate	Total
	<b>CLASS D: RESTORATION WORKS WK29B</b>				
	<i>See Restoration Plan Drawing No. NPWS-BBRP-02-06</i>				
	<b><u>Part 1: Construction of Peat Dams</u></b>				
4A.1	Construction of small peat dams as per Drawing NPWS-BBRP-02-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width < 1.0m	34	No.		
4A.2	Construction of Medium peat dams as per Drawing NPWS-BBRP-02-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width > 1.0m ≤ 1.5m	100	No.		
4A.3	Construction of Medium peat dams as per Drawing NPWS-BBRP-02-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width > 1.5m ≤ 2.0m	9	No.		
4A.4	Construction of Large peat dams as per Drawing NPWS-BBRP-02-15 Grip/Gully Peat Dam. Drain depth < 1.0m, Width > 2.0m ≤ 3.0m	13	No.		
	<b><u>Part 2: Construction of Timber Sediment Traps/Leaky Dams</u></b>				
4B.2	Construction of timber sediment traps/leaky dams as per Drawing NPWS-BBRP-02-17. Height ~1.0m, Width >1.0m ≤ 1.5m (Average of 4no Timber Planks 250mm x 37.5mm x 2.5m per Dam + Stakes)( <b>Located in Machinery inclusion Zone</b> )	1	No.		
	Total Restoration Works Area WK29B				

Ref	Description	Qty	Unit	Rate	Total
	<b>Dayworks Rates</b>				
1	Generator	1	hr		
2	Van	1	hr		
3	6 tonne excavator	1	hr		
4	13 tonne excavator	1	hr		
5	A25 Dumptruck	1	hr		
6	General Operative	1	hr		
7	Machine Driver	1	hr		
8	Foreman	1	hr		