



## Part 5 Bill of Quantities

**Contract Reference**

**TBS2619**

**Contract Title**

**Inspection and Maintenance of  
Brixham Harbour Moorings 2020**

**Return Date**

**Monday 16 December 2020**

**Return Time**

**12.00 noon**

**Return To**

**[www.supplyingthesouthwest.org.uk](http://www.supplyingthesouthwest.org.uk)**

**Applicant Name**

## **BILL OF QUANTITIES**

### **PREAMBLE**

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract and Specification.
2. A price or rate shall be inserted against each item in the Bill of Quantities, whether quantities are stated or not. Items against which no price is entered will be considered as covered by the other prices or rates in the Bill.
3. The cost of complying with the Conditions of Contract and Specification shall be covered by the rates quoted in the various items in the Bill of Quantities. The prices in the Bill of Quantities shall be the full inclusive cost of the work described and of all general liabilities and obligations set forth or implied in the documents on which the Tender is based including the following unless expressly stated otherwise.
  - a) Labour and all costs in connection therewith.
  - b) The supply of materials, goods, storage and costs in connection therewith including waste and delivery to site.
  - c) All signing and traffic control to the current edition of Chapter 8 of the Traffic Signs Manual.
  - d) Plant and costs in connection therewith.
  - e) Fixing, erecting and installing or placing of materials and goods in position.
  - f) Disposal of waste materials and all costs in connection therewith.
  - g) Temporary works.
  - h) The cost of travelling between sites as necessary in the carrying out of works.
  - i) Establishment charges, overheads and profit.
  - j) Establishment charges on completion of the works.
  - k) The effect on the phasing of the works or any element of the works to the extent set forth or reasonably implied in the documents on which the Tender is based.
  - l) General obligations, liabilities and risks involved in the execution of the works set forth or reasonably implied in the documents on which the Tender is based.
  - m) Attendance and transport for sampling and testing carried out by the Engineer supply results of tests carried out by the Contractor and providing test certificates.
  - n) Complying with the Quality Assurance schemes and providing certificates of conformity.

- o) Awaiting approvals and consents.
  - p) Communication equipment for the Contractor.
  - q) All temporary supports, staging, boats, diving and all equipment necessary for the completion of the works.
4. General directions and description of works and materials are not necessarily repeated in the Bill of Quantities and reference shall be made to the Conditions of Contract and to the Specification for this information. For the convenience of the Contractor, certain Clauses in the Conditions of Contract and the Specification may be referred to in the description column of some of the items in the Bill of Quantities, but where this is not done, the omission of such reference will not relieve the Contractor of any of his obligations under the Contract.
  5. The quantities set out in the Bill of Quantities are the estimated quantities of the work and they are not to be taken as the actual quantities of the works to be executed by the Contractor in the fulfilment of his obligations under the Contract. All work will be measured on completion, and only the amount of work executed in accordance with the Contract will be paid for at the rates given in the Bill of Quantities or at rates analogous thereto. All provisional quantities are to be expended if and when directed by the Engineer, or deducted in whole or in part if not required.
  6. All measurements will be for actual net measurements of finished work unless otherwise stated and all thicknesses specified are to be finished thicknesses.
  7. The information as to the whereabouts of existing services and mains can not be guaranteed and the Contractor shall not be relieved thereby of his obligations under the Contract. The Contractor shall include in his rates and prices for locating and taking measures for the support and full protection of pipes, cables and other apparatus during the process of the works, obtaining the written consent of the appropriate authority to interrupt the service or supply and for keeping the engineer informed of all arrangements he makes with the owners of privately owned services or supplies, Statutory Undertakers and Public Authorities as appropriate.
  8. The Contractor shall allow in his rates and prices for taking measures to deal with the existing flow of water, sewage and the like.
  9. The Contractor shall allow in his rates and prices for complying with any limitations and constraints on the use of the Site.
  10. Where the Contractor offers an equivalent product or material in place of the one identified or specified, which is accepted for incorporation into the Works by the Engineer, then the rates and prices in the Bill of Quantities shall be deemed to include for all the obligation costs associated with the incorporation of the equivalent into the Works, including design, provision of the data and drawings, certificates, awaiting approvals, re-submissions and modifications and amendments to the works.
  11. Where the Contract requires part(s) of the Permanent Works to be designed by the Contractor, the rates and prices in the Schedule of Rates shall include for all

obligations and costs associated with the incorporation of the Contractor's design into the works, including design, provision of data and drawings, certificates, awaiting proposals, re-submissions and modifications and amendments to the works.

12. Interim additions or deductions on account of the amount, if any, of the Adjustment Item shall be made by instalments in interim certificates.
13. The Contractor must include for all works associated with items in the Bill of Quantities, and should also include for weather and tidal dependant operations and downtime as a result of inclement weather. No claims due to weather or tidal conditions will be considered.
14. The Contractor shall produce to the Harbour Master a record of the length and type of any chain/element replaced (see also G2). The cost of these records is deemed to be included in the Tender price.
15. The rates quoted for supply and installation of ground chain shall be for 65mm Studlink Ex M.O.D. Certified ground chain, or similar agreed, and shall include for reconnecting all existing mooring chains.
16. Any work boat or diving boat used in the contract shall be in possession of a Health and Safety Document or Certificate from the Marine Safety Agency and approved by the Harbour Master.
17. All new buoys installed shall be clearly marked with appropriate notation in a manner that will remain clear for at least fifteen months. Should notation fade or fail for any reason the successful Contractor will be required to re-notate at his own expense and to the approval of the harbour Master whose decisions or re-marking requirements will be final.
18. The Contractor shall supply to the harbour Master the signed and completed Mooring Inspection Schedule/Indemnity certificate for each mooring, and the completion of this will be deemed to be included in the tender price.
19. The tenderer shall provide a schedule of all material prices current at the time of tendering (i.e. riser chains/ ground chains/ buoys). together with the name of the proposed supplier. Agreed increases in material costs will be recognised but no on-costing. No increase costs in respect of labour charges will be allowed during the period of this contract.
20. All renewed chains, buoys, etc. are to be inspected together by both the Harbour Master and Contractor. The Contractor will have stated on his Inspection Schedule/Indemnity Certificate form, the detailed reason why he has renewed a mooring element(s).
21. Before payment can be made to the Contractor for the work, both parties must agree that the mooring element has i) already failed, ii) is likely to fail within 15 months, due to the reasons stated on the relevant Inspection Schedule form.
22. If no agreement can be reached, the Harbour Master reserves the right to employ the services of an independent materials specialist, whose decision, based on "Fit for Purpose" will be final. The cost of this service will be borne in full by whoever

the decision goes against. The Contractor must allow for this possibility in his tender submission.

### **Dayworks**

23. The rates for Daywork shall apply to work instructed by the Harbour Master to be carried out on a daywork basis at any time up to the date of the Defects Correction Certificate.
24. After the date of issue of the Certificate of Substantial Completion the Contractor may be allowed a proportion of his travelling time as determined by the Harbour Master.
25. The daywork schedule for this Contract is incorporated in Bill No.2 of the Bill of Quantities and enables the Contractor to quote rates and percentage variation for any work which may be ordered, and paid for on a daywork basis.

NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
					£	p
	<p><b><u>ANNUAL PRELIMINARIES</u></b>  (Paid each of the 3 years)  The Contractor is to enter under the appropriate section, numbers and descriptions of any relevant clauses in the contract document or any other items which for any reason the Contractor considers <u>should not</u> be borne generally upon the rates in the Bills, and insert against each individual clause and additional sums to which he considers himself entitled.</p> <p><b>ANY ITEMS NOT MENTIONED BELOW WILL BE TAKEN AS BEING COVERED BY THE RATES ELSEWHERE IN THE BILLS OF QUANTITIES</b></p>					
A	From instructions to tenderers					
B	From General Conditions of Contract additions and amendments thereto. (per annum)					
C	From Specification <ul style="list-style-type: none"> <li>i. General Clauses and Conditions to be observed in tendering</li> <li>ii. Workmanship</li> <li>iii. Insurances</li> </ul>					
D	Provision of marker buoys, warning lights and notices, fencing etc. for sealing off working area in accordance with G.19	Item				
E	Provide upon the works sufficient proper and efficient life-saving and first aid appliances to the satisfaction of the Engineer, which shall be available for use at all times.	Item				
F	Any other items					
<b>TOTAL BILL 1 CARRIED FORWARD TO GRAND SUMMARY</b>					£	

**BILL NO. 2**

NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
					£	p
	<b><u>ANNUAL GENERAL PROVISIONAL ITEMS</u></b>					
201	Photographs as directed by the Engineer	Item			50.00	
202	Allow the Provisional Sum of £2000 for inspection of Town Pontoon moorings.	Item			2000.00	
203	<b>Provisional Daywork Schedule</b>					
	Manpower hourly rates	man hours	25			
	For full Diving Team including work boat and all necessary equipment (Based on an 8 hour working day)	per day	2			
	This rate will be used to compute charges for periods should they be less than one working day					
	Work boat excluding diving team but including all equipment and crew	per hour	10			
	All plant and equipment rates shall be as the Federation of Civil Engineering Contractors Schedules subject to the following adjustments:-					
	Own Plant					
	+ %					
	- %					
	Hired Plant					
	+ %					
	- %					
<b>TOTAL BILL 2 CARRIED FORWARD TO GRAND SUMMARY</b>					£	

**BILL NO. 3**

NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
					£	p
	<b><u>ANNUAL MOORING INSPECTIONS</u></b>					
	Inspect and certify the following 1 moorings annually, including connections to ground chain, buoy and buoy shackle, and the remarking of all buoys (rate is per inspection)					
	<b><u>Moorings on Line 'A'</u></b>					
301	Class 1	No	1			
	<b><u>Moorings on Line 'B'</u></b>					
302	Class 2	No	4			
	<b><u>Moorings on Line 'C'</u></b>					
303	Class 2	No	8			
	<b><u>Moorings on Line 'D'</u></b>					
304	Class 3	No	8			
305	Class 4	No	2			
	<b><u>Moorings on Line 'E'</u></b>					
306	Class 4	No	17			
	<b><u>Moorings on Line 'F'</u></b>					
307	Class 4	No	16			
	<b><u>Moorings on Line 'G'</u></b>					
308	Class 4	No	15			
	<b><u>Moorings on Line 'H'</u></b>					
309	Class 4	No	14			
	<b><u>Moorings on Line 'J'</u></b>					
310	Class 3	No	1			
311	Class 4	No	15			
Carried forward					£	



NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
					£	p
	<b><u>Moorings on Line 'P'</u></b>					
312	Class 3	No	12			
313	Class 4	No	2			
	<b><u>Moorings on Line 'Q'</u></b>					
314	Class 3	No	14			
	<b><u>Moorings on Line 'R'</u></b>					
315	Class 3	No	14			
	<b><u>Moorings on Line 'S'</u></b>					
316	Class 1	No	7			
	<b><u>Moorings on Line 'T'</u></b>					
317	Class 1	No	6			
	<b><u>Moorings on Line 'U'</u></b>					
318	Class 1	No	4			
	<b><u>Moorings on Line 'V'</u></b>					
319	Class 1	No	2			
	<b><u>Moorings on Line 'W'</u></b>					
320	Class 1+	No	2			
	<b><u>Moorings on Line 'MB'</u></b>					
	Class 1+	No	4			
	<b><u>Moorings on Line 'HJ'</u></b>					
	Class 1+	No	4			
	The following items are <b>Provisional</b> . (refer to Preamble 20)					
	<b><u>ANNUAL REPLACEMENT OF DEFECTIVE ELEMENTS MOORINGS</u></b>					
	<b><u>To Class 1+ moorings</u></b>					
321	14.64m long, 28mm riser chain. All as specified	No	5			
322	Green Pin12t tested shackle to top of buoy. All as specified.	No	5			
323	Norfloat MB350 cylinder buoy (or similar approved)	No	2			

	<b><u>To Class 1 moorings</u></b>				
324	14.64m long, 26mm riser chain. All as specified	No	7		
325	Green Pin 12t tested shackle to top of buoy. All as specified.	No	7		
326	Norfloat MB350 cylinder buoy (or similar approved)	No	2		
				Carried forward	£

NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
					£	p
	Brought forward					
	<b><u>To Class 2 moorings</u></b>					
327	14.64m long, 26mm riser chain. All as specified.	No	4			
328	Green Pin 8.5t tested shackle to bottom of buoy. All as specified.	No	4			
329	Norfloat BM90 buoy (or similar approved)	No	1			
	<b><u>To Class 3 moorings</u></b>					
330	14.64m long, 19mm riser chain. All as specified.	No	18			
331	Green Pin 6.5t tested shackle to bottom of buoy. All as specified.	No	18			
332	Norfloat BM75 buoy (or similar approved)	No	3			
	<b><u>To Class 4 moorings</u></b>					
333	14.64m long, 19mm riser chain. All as specified.	No	26			
334	Green Pin 6.5t tested shackle to bottom of buoy. All as specified.	No	26			

335	Norfloat BM75 buoy (or similar approved)	No	5		
336	Clearly tag and remove all rejected chain and fittings from site to suitable locked container for inspection	Item			
337	Supply and place new 65mm ground chain including reinstatement of any mooring connections	M	50		
<b>TOTAL BILL 3 CARRIED FORWARD TO GRAND SUMMARY</b>					<b>£</b>

# GRAND SUMMARY

Bill part	Description	Amount	
		£	p
Bill No 1	Annual Preliminaries		
Bill No. 2	Annual General Provisional Items		
Bill No. 3	Annual Brixham Harbour Moorings Works		
	<b>Sub Total</b>		
	<b>Contingencies 10%</b> (Tenderer to add 10% of sub total)		
	<b>Total</b>		
	<b>Adjustment Item</b>		
	<b>Total for each year</b>		
	<b>GRAND TOTAL FOR THE THREE YEAR PERIOD</b> (Above figure x 3 and carried to Form of Tender)		

Signed.....

Print name.....

Company name.....

Address.....

.....

Tel. no.....

Email.....

Date.....