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NB

**ENERGY INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

NB/T 10999-2022

**Specification for bills of quantities and valuation for offshore
wind power projects**

海上风电场工程工程量清单计价规范

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Table of Contents

Foreword	8
Introduction	9
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Overall requirements	3
5 Preparation of the bill of quantities	4
5.1 General requirements	4
5.2 Explanatory notes to the bill of quantities	4
5.3 Bill of quantities for work sections and trades	4
5.4 Purchase list for equipment and installation materials	4
5.5 List of preliminaries	5
5.6 List of other items	5
5.7 Item coding of the bill of quantities	5
6 Valuation of the bill of quantities	9
6.1 General requirements	9
6.2 Maximum tender price limit	10
6.3 Tender price	10
6.4 Agreement of the contract price	11
6.5 Measurement of the works	12
6.6 Adjustment of the contract price	12
6.7 Interim payment of the contract price	17
6.8 Final account and payment	18
6.9 Settlement and payment on termination of the contract	19
6.10 Handling of valuation disputes	20
6.11 Valuation records and archiving	20
7 Composition and format of the bill of quantities	21
8 Composition and format of the bill of quantities valuation	21
Annex A (Normative) Items and calculation rules for the building works bill of quantities ..	23
Annex B (Normative) Items and calculation rules for the installation works bill of quantities	60
Annex C (Normative) Items and calculation rules for the equipment and installation materials purchase list	80

Annex D (Normative) List of preliminaries and calculation rules	101
Annex E (Informative) Tender item list for the wind farm works.....	103
Annex F (Informative) Tender item list for the offshore substation works.....	110
Annex G (Informative) Tender item list for the landfall cable works.....	126
Annex H (Informative) Tender item list for the onshore substation or centralised control centre works	132
Annex I (Informative) Tender item list for other works.....	179
Annex J (Informative) Tender item list for the purchase of equipment and installation materials	181
Annex K (Informative) Tender item list for preliminaries.....	227
Annex L (Normative) Format of the bill of quantities	229

Foreword

This document was issued on 4 November 2022 by the National Energy Administration of the PRC and takes effect on 4 March 2023.

It is a NB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 27.180, Chinese classification P 02.

This document was drafted in accordance with the rules given in GB/T 1.1-2020 Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents.

Please note that some of the content of this document may be the subject of patent rights. The issuing body of this document assumes no responsibility for identifying patents.

This document is administered by the National Energy Administration and was proposed by the General Institute of Hydropower and Water Resources Planning and Design.

This document is issued for the first time.

1 Scope

NB/T 10999-2022 is the Chinese specification for the bill of quantities and its valuation in offshore wind power projects, and at 282 pages it is essentially the commercial rulebook for how such a project is tendered, priced and paid for. It exists because offshore wind construction is priced in a way onshore construction is not. The dominant cost is not material or labour but the vessel: an installation jack-up costs a fortune a day whether it is working or sitting out a storm, and a contract that does not say clearly who carries the weather risk, how a delay is measured and what triggers a price adjustment is a contract that ends in arbitration. This document supplies the common language that prevents that. It

defines the eleven commercial terms the parties argue over - the bill of quantities and the priced bill, the all-in unit rate, work sections and trades, preliminaries, provisional sum, prime cost sum, dayworks, main contractor's attendance, health safety and environmental provisions, and unit rate project - and its definition of the all-in unit rate is significant because it names the construction vessel explicitly as a cost element alongside labour and materials, which is where offshore diverges from the national code GB 50500 it otherwise follows. It then sets out the preparation of the bill of quantities, with separate lists for work sections and trades, for the purchase of equipment and installation materials, for preliminaries and for other items, together with the item coding scheme; and the valuation clause, which covers the maximum tender price limit, the tender price, the agreement of the contract price, the measurement of the works, the adjustment of the contract price, interim payment, final account and payment, settlement on termination, the handling of valuation disputes, and the archiving of valuation records. The bulk of the document is its twelve annexes: four normative ones giving the items and calculation rules for the building works, the installation works, the equipment and materials purchase list and the preliminaries, plus the format of the bill itself; and seven informative tender item lists covering the wind farm, the offshore substation, the landfall cable, the onshore substation or centralised control centre, other works, the purchase of equipment and materials, and the preliminaries. It was issued on 4 November 2022 by the National Energy Administration and took effect on 4 March 2023.

This document establishes the requirements for the preparation and the valuation of the bill of quantities of offshore wind power projects, and specifies the format of the bill of quantities and the format of its valuation.

This document applies to valuation activities during the tendering, contracting and contract performance of offshore wind power projects.

2 Normative references

This document has no normative references.

3 Terms and definitions

3.1 bills of quantities

The detailed list setting out the names and the corresponding quantities of the work section and trade items, the preliminaries, the other items, and the equipment and installation materials purchase items of a construction project. [GB 50500-2013, definition 2.0.1, modified]

3.2 priced bills of quantities

The bill of quantities forming part of the contract documents, in which prices have been entered in the tender, arithmetical errors have been corrected if any, and which has been

confirmed by the contractor, including its explanatory notes and tables. [GB 50500-2013, definition 2.0.3]

3.3 all-in unit rate

The labour cost, material cost, construction vessel or plant cost, other direct costs, indirect costs, profit and tax required to complete one specified unit of measurement of an item in the bill of quantities, taking account also of the risk costs to be borne by the contractor. [GB 50500-2013, definition 2.0.8, modified]

3.4 work sections and trades

A work section is a component of a single or unit project, obtained by dividing the single or unit project into several sections according to structural location, construction characteristics or construction task; a trade item is a component of a work section, obtained by dividing the work section into several items according to different construction methods, materials or processes. [GB 50500-2013, definition 2.0.4, modified]

3.5 preliminaries

Non-physical items arising in construction preparation and in the construction process, relating to construction technique, safety, environmental protection and the like, which are not included in the all-in unit rate. [GB 50500-2013, definition 2.0.5, modified]

3.6 provisional sum

A sum provisionally fixed by the employer in the bill of quantities and included in the contract price, to be used for items not yet determined or not foreseeable at the time the contract is signed, such as the adjustment of the contract price when variations or agreed adjustment factors occur during construction, and claims and site confirmations. [GB 50500-2013, definition 2.0.18, modified]

3.7 prime cost sum

The amount provided by the employer in the bill of quantities to pay for items or specialist works that will certainly arise but whose price cannot yet be determined. [GB 50500-2013, definition 2.0.19, modified]

3.8 dayworks

A method of valuation in which, during construction, the contractor completes odd items or work outside the scope of the works contract as instructed by the employer, valued at the all-in unit rates agreed in the contract, and divided into labour, materials and construction vessels or plant. [GB 50500-2013, definition 2.0.20, modified]

3.9 main contractor's attendance

The cost of the services required of the main contractor in cooperating with and coordinating the employer in letting specialist works, and in the site management and