Book Presentation!

Measurement of Construction Work Quantities

By: **MUSA SALAU**, BSc, MSc, FNIQS

Historical Background

Major transformation in the construction measurement standards prompted by the RICS's migration from SMM7 to NRM2

Effective date of BESMM4

July 2013	Nov. 2015	May 2017	Mar. 2021

NIQS's launch its own version of the new standards, BESMM4, done along the same principle with NRM2.

National Policy Committee of NIQS's deadline for the adoption of BESMM4

Observed Outcome

There seems to be foot-dragging among members in embracing the new Measurement Standards.

implications

Ambiguity in work descriptions → lack of transparency

Inconsistency in projects costing → inability to compare project costs

Difficulties in interpreting documents → prevalence of overruns & even disputes

Measurement Standards.. a criterion in cost quantification

Improving project cost performance is obviously possible by refining cost quantification skills - Alan Muse, RICS (2017)

Pre-requisite to a successful cost quantification will be a consistent improvement in the standardisation of data format – See Lian, FIG (2017)

More attention to technological development and standards will results in more effective and productive construction - Alan Muse, RICS (2019)

Remodeling & Refocusing QS Professsion

Measurement Standards

Global Consistency in presenting construction costs – ICMS goal

Enable performance comparisons & encourage transparency

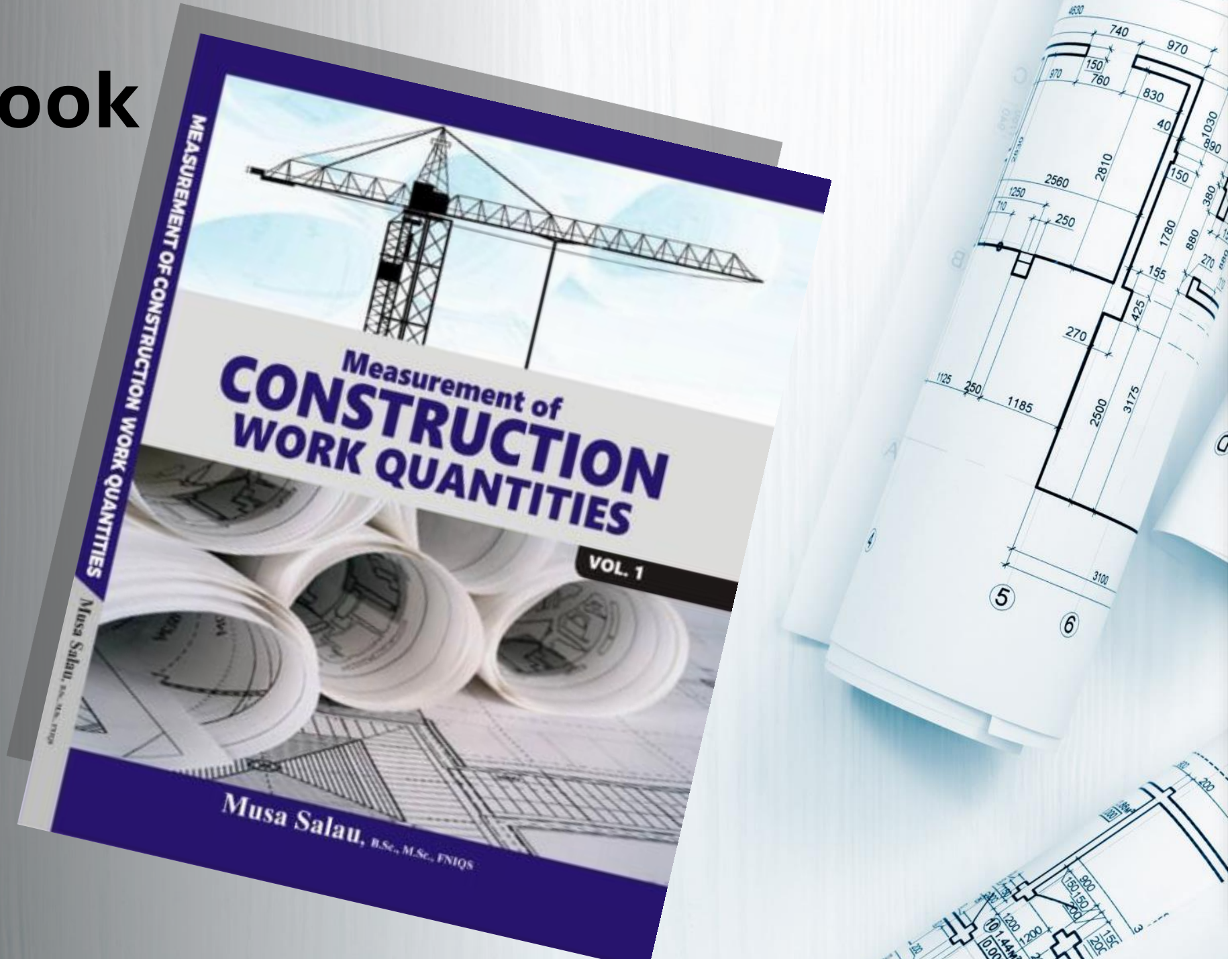
Automation in construction cost quantifications

Measurement Standards (i.e. NRM2, POMI) are being adopted on BIM platform to perform automated cost quantification.

Increase in demands for more detailed cost quantifications

Recent editions of ICMS has consideration for life cycle costs and recognise the criticality of reducing green house gas emission

The Book


MEASUREMENT OF CONSTRUCTION WORK QUANTITIES
Measurement of
CONSTRUCTION
WORK QUANTITIES
VOL. 1
Musa Salau, B.Sc., M.Sc., FNIQS

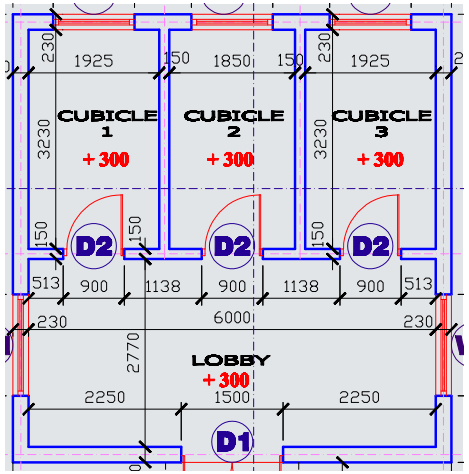
The Book – 17 Chapters

1: Scope of Measurement of Construction Works

2: Principles of Construction Works Measurement

3.00 2.00 1.50		Plain in-situ concrete, grade 20, mass concrete, 225mm thick, in trench filling, substructure, poured on or against earth or unblinded hardcore
4.50 3.00 2.80	↑ NIL ↓	

3: Concept of Taking-off Work Quantities



4-17: Worked examples across all work elements typical in a building project.

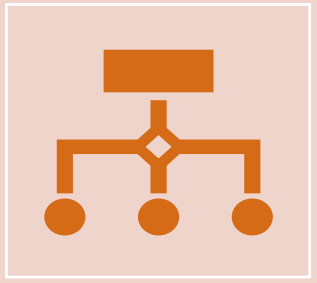
THE BOOK ...

Founded on the Revised 4th Edition of Building and Engineering Standard Method of Measurement (BESMM4R) published by the NIQS.

Structured into two learning perspectives:
(a) Explanatory notes on construction tech.,
(b) display of taking-off skills for different work elements commonly encountered in building construction projects including M&E.

THE BOOK ...

Explanatory side notes are provided to explain the step-by-step procedures in the taking-off processes of each item.



Measurement codes are shown against all work descriptions to show the applicable measurement rules used in the taking-off.

THE BOOK …

Recommended as:	A valuable source of learning for students studying quantity surveying
	Preparatory stuff for candidates preparing for Institute's professional examinations
	An excellent reference material for quantity surveying practitioners

Thank you.