

PROJECT INFORMATION AND IBS SCORE DECLARATION

For Office Use
Project Registration No:
Project Category:

Project Name:	Contract Value:
Contractor Name:	Architecture Consultant Name:
Developer/ Owner Name:	Civil/ Structure Consultant Name:

List of Submitted Drawings [Please tick (/)]	
1) Project Plan Drawing	[]
2) Structural Drawings (including beam and column schedules)	[]
3) Architectural Drawings (including door and window schedules)	[]
4) Section Plan	[]
5) Roof Plan	[]

We hereby declare that the information given and the IBS Score submitted herewith is true and complete.

The total **IBS Score** for the proposed project/ building is _____

Name & Signature of Qualified Person:

Designation :

Professional Reg. No :

Date :

SUMMARY IBS SCORE CALCULATION FOR PROJECT/ BUILDING

PROJECT DETAILS		
Project/ Building Name:		
Category of Project/ Building <i>[Please tick (/), multiple ticks for mixed development]</i> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> <input type="checkbox"/> Residential (landed) </div> <div style="width: 30%;"> <input type="checkbox"/> Industrial </div> <div style="width: 30%;"> <input type="checkbox"/> Commercial </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> <input type="checkbox"/> Residential (high-rise) </div> <div style="width: 30%;"> <input type="checkbox"/> Institutional </div> <div style="width: 30%;"> <input type="checkbox"/> Others _____ </div> </div>		

SUMMARY SHEET (GROUP OF BUILDING/ BLOCK)				
BUILDING/ BLOCK NAME	AREA (m ²)	COVERAGE AREA (%)	IBS SCORE BUILDING/ BLOCK	IBS SCORE OF PROJECT
TOTAL				

TOTAL IBS SCORE FOR THIS PROJECT = _____

IBS SCORE CALCULATION FOR BUILDING/ BLOCK

BUILDING/ BLOCK DETAILS		
Building/ Block Name:		
Category of Building/ Block <i>[Please tick (/)]</i>		
<input type="checkbox"/> Residential (landed)	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial
<input type="checkbox"/> Residential (high-rise)	<input type="checkbox"/> Institutional	<input type="checkbox"/> Others _____

SUMMARY IBS SCORE CALCULATION					
BUILDING/ BLOCK NO.	NO OF BLOCKS/ UNITS	STRUCTURAL SYSTEMS (50 SCORE)	WALL SYSTEMS (20 SCORE)	OTHER SIMPLIFIED CONSTRUCTION SOLUTION (30 SCORE)	TOTAL IBS SCORE

NOTE:

1. Additional factors for system used based on component utilisation. The components are as follows:
 - a) Beam and column – numbers
 - b) Wall – metre length
 - c) Slab – metre square

System used	Usage in Percentage	Additional Factors
i. Precut and prebend reinforcement bar/ steel fabric	$50\% \leq x < 75\%$	0.02
	$75\% \leq x \leq 100\%$	0.05
ii. Prefabricated reinforcement cage	$50\% \leq x < 75\%$	0.05
	$75\% \leq x \leq 100\%$	0.10
iii. Self-compacting concrete	$50\% \leq x < 75\%$	0.05
	$75\% \leq x \leq 100\%$	0.10
iv. Tunnel formwork / self-climbing formwork system	$50\% \leq x < 75\%$	0.10

CALCULATION IBS SCORE FOR PART 1: STRUCTURAL SYSTEMS

CONSTRUCTION METHOD				
No.	COLUMNS & BEAMS / WALLS	IBS Factor, (a)	Area(m ²)/ utilisation(%), (b)	Coverage, (d) = (b)/(c)
IBS Score, (a)x(d)x50				
A. SLABS/ FLOORING SYSTEM: Prefabricated slabs/ flooring system				
1.	Prefabricated columns and beams/ load-bearing walls	1.0		
2.	Prefabricated columns and in situ beams using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.7		
3.	Prefabricated columns and in situ beams using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.6		
4.	Prefabricated beams and in situ columns using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.7		
5.	Prefabricated beams and in situ columns using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.6		
6.	In situ columns and beams / load-bearing walls using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.5		
7.	In situ columns and beams / load-bearing walls using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.4		
8.	Load-bearing blockwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.7		
9.	In situ columns and beams / load-bearing walls with permanent formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.6		

CONSTRUCTION METHOD					
No.	COLUMNS & BEAMS / WALLS	IBS Factor, (a)	Area(m ²)/ utilisation(%), (b)	Coverage, (d) = (b)/(c)	IBS Score, (a)x(d)x50
B. SLABS/ FLOORING SYSTEM: In situ concrete on permanent formwork					
1.	Prefabricated columns and beams/ load-bearing walls	0.8			
2.	Prefabricated columns and in situ beams using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.6			
3.	Prefabricated columns and in situ beams using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.5			
4.	Prefabricated beams and in situ columns using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.6			
5.	Prefabricated beams and in situ columns using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.5			
6.	In situ columns and beams / load-bearing walls using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.4			
7.	In situ columns and beams / load-bearing walls using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.3			
8.	Load-bearing blockwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.6			
9.	In situ columns and beams / load-bearing walls with permanent formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.5			

CONSTRUCTION METHOD					
No.	COLUMNS & BEAMS / WALLS	IBS Factor, (a)	Area(m ²)/ utilisation(%), (b)	Coverage, (d) = (b)/(c)	IBS Score, (a)x(d)x50
C. SLABS/ FLOORING SYSTEM: In situ concrete using reusable formwork system					
1.	Prefabricated columns and beams/ load-bearing walls	0.7			
2.	Prefabricated columns and in situ beams using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.4			
3.	Prefabricated columns and in situ beams using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.3			
4.	Prefabricated beams and in situ columns using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.4			
5.	Prefabricated beams and in situ columns using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.3			
6.	In situ columns and beams / load-bearing walls using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.3			
7.	In situ columns and beams / load-bearing walls using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.1			
8.	Load-bearing blockwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.4			
9.	In situ columns and beams / load-bearing walls with permanent formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.3			

CONSTRUCTION METHOD					
No.	COLUMNS & BEAMS / WALLS	IBS Factor, (a)	Area(m ²)/ utilisation(%), (b)	Coverage, (d) = (b)/(c)	IBS Score, (a)x(d)x50
D. SLABS/ FLOORING SYSTEM: In situ concrete using conventional timber formwork					
1.	Prefabricated columns and beams/ load-bearing walls	0.4			
2.	Prefabricated columns and in situ beams using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.3			
3.	Prefabricated columns and in situ beams using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.2			
4.	Prefabricated beams and in situ columns using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.3			
5.	Prefabricated beams and in situ columns using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.2			
6.	In situ columns and beams / load-bearing walls using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.1			
7.	In situ columns and beams / load-bearing walls using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.0			
8.	Load-bearing blockwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.3			
9.	In situ columns and beams / load-bearing walls with permanent formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.2			

CONSTRUCTION METHOD					
No.	COLUMNS & BEAMS / WALLS	IBS Factor, (a)	Area(m ²)/ utilisation(%), (b)	Coverage, (d) = (b)/(c)	IBS Score, (a)x(d)x50
E. SLABS/ FLOORING SYSTEM: Void					
1.	Prefabricated columns and beams/ load-bearing walls	1.0			
2.	Prefabricated columns and in situ beams using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.7			
3.	Prefabricated columns and in situ beams using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.6			
4.	Prefabricated beams and in situ columns using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.7			
5.	Prefabricated beams and in situ columns using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.6			
6.	In situ columns and beams / load-bearing walls using reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.5			
7.	In situ columns and beams / load-bearing walls using conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.0			
8.	Load-bearing blockwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.7			
9.	In situ columns and beams / load-bearing walls with permanent formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.6			

IBS SCORE FOR STRUCTURAL SYSTEMS

CONSTRUCTION METHOD					
No.	ROOF SYSTEMS	IBS Factor, (a)	Area(m ²)/ utilisation(%), (b)	Coverage, (d) = (b)/(c)	IBS Score, (a)x(d)x50
1.	Prefabricated roof trusses	1.0			
2.	Conventional timber roof trusses	0.0			
Total Area, (c) =					
Total Coverage = 1.00					
Total IBS Score =					

Maximum IBS Score for Part 1 = 50	Total IBS Score (Part 1) =
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CALCULATION IBS SCORE FOR PART 2: WALL SYSTEMS

No.	WALL SYSTEMS	IBS Factor, (a)	Length(m)/ utilisation(%), (b)	Coverage, (d) = (b)/(c)	IBS Score, (a)x(d)x20
1.	Prefabricated wall panels	1.0			
2.	Dry wall system	0.7			
3.	In situ concrete with permanent formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.6			
4.	Blockwork system	0.5			
5.	In situ concrete with a reusable formwork system (additional factor if applicable: i / ii / iii / iv) ¹	0.3			
6.	Common brick walls	0.0			
7.	In situ concrete with conventional timber formwork (additional factor if applicable: i / ii / iii / iv) ¹	0.0			
Total length, (c) =					
Total Coverage = 1.00					
Total IBS Score =					

Maximum IBS Score for Part 2 = 20

Total IBS Score (Part 2) =

CALCULATION IBS SCORE FOR PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS

(A) DESCRIPTION		Unit	Usage (%)		% Usage	Points
			$50\% \leq x < 75\%$	$75\% \leq x \leq 100\%$		
1 Utilisation of Standardised Components						
a) Beam	(Refer to Annex A, CIS 18:2023)	Nos	2	4		
b) Column		Nos	2	4		
c) Wall		m	2	4		
d) Slab		m ²	2	4		
e) Door	(Refer to MS1064-4)	Nos	2	4		
f) Window	(Refer to MS1064-5)	Nos	2	4		

Total points calculated = _____

Maximum points for this subcategory = 16 points.

Points awarded (A) = _____

(B) DESCRIPTION	Unit	Usage (%)		% Usage	Points
		$50\% \leq x < 75\%$	$75\% \leq x \leq 100\%$		
2 Repetition of the Structural Layouts					
a) For a building of three (3) storeys and above					
i. Repetition of floor-to-floor height	Nos	2	3		
ii. Vertical/ horizontal repetition of structural layout	Nos	2	3		
b) For a building of one (1) or two (2) storeys					
i. Horizontal repetition of structural layout	Nos	3	6		

Total points calculated = _____

Maximum points for this subcategory = 6 points.

Points awarded (B) = _____

Building/ Block No. : _____

Page No. : _____ of _____

(C) DESCRIPTION	Unit/ Adopt	Usage (%)		% Usage	Points
		50% ≤ x <75%	75% ≤ x ≤ 100%		
3 Productivity Enhancing Solutions and Technology Adoption					
a) Simulation and Modelling					
i. Building Information Modelling (BIM)	Level 1	2			
	Level 2 and above	6			
b) Digitalisation and Virtualisation					
i. Augmented Reality & Virtualisation	Adopt	1			
ii. Artificial Intelligence	Adopt	1			
iii. Big Data and Predictive Analytics	Adopt	1			
iv. Blockchain	Adopt	1			
v. Cloud and Realtime Collaboration	Adopt	1			
vi. Internet of Things	Adopt	1			
c) Smart Construction					
i. 3D Printing & Additive Manufacturing	Adopt	1			
ii. 3D Scanning and Photogrammetry	Adopt	1			
iii. Autonomous Construction	Adopt	1			
iv. Advanced Building Material	Adopt	2			
v. Prefabrication & Modular Construction					
(a) Prefabricated Volumetric Module (PVM)	Nos	3	6		
(b) Prefabricated staircase	Nos	2	4		
(c) Usage of Prefabricated Mechanical, Electrical, Plumbing (MEP) systems	Nos	2	4		

Building/ Block No. : _____
Page No. : _____ of _____

IBS SCORE FOR OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS

(C) DESCRIPTION	Unit/ Adopt	Usage (%)		% Usage	Points
		50% ≤ x <75%	75% ≤ x ≤ 100%		
d) Other Enhancing Solutions					
i. Usage of self-climbing working platform	Adopt	2			
ii. Usage of Modular Gridlines in drawings	Nos	3	6		

Total points calculated = _____

Maximum points for this subcategory = 14 points.

Points awarded (C) = _____

SUMMARY OF PART 3

No.	PART 3: SUBCATEGORY	Points	
		Maximum	Awarded
(A)	Utilisation of Standardised Components	16	
(B)	Repetition of the Structural Layouts	6	
(C)	Productivity Enhancing Solutions and Technology Adoption	14	

Total IBS Score calculated = _____

Maximum IBS Score for Part 3 = 30

Total IBS Score awarded (Part 3) = _____

Building/ Block No. : _____
 Page No. : _____ of _____

