

8 Sept 2020

iNPQS SPECIFICATION – CALLS FOR PUBLIC COMMENTS

iNPQS aims to harmonise the industry's building specifications and provide a standard platform for achieving greater efficiency and quality in the design, procurement and construction processes, leading to improved productivity across the value chain. It provides standard specifications for architectural and engineering works on a cloud-based digital platform that can be used by the industry practitioners in the built environment sector to compose their project specifications.

Members of the public are invited to comment on the Draft Specifications for publication on the iNPQS platform which is scheduled to be launched to the public in November 2020. The comments will be collated and forwarded to the relevant parties for consideration into the final document.

The Draft Specifications for Public Comments are organised under different Sections based on Architecture, Civil & Structural and Mechanical & Electrical disciplines and can be accessible respectively at the following links:

Architecture URL link:

<http://gofile.me/4KFWQ/PJbQbC9YO>

Civil & Structural URL link:

<http://gofile.me/4KFWQ/oPuRRAQMs>

Mechanical & Electrical URL link:

<http://gofile.me/4KFWQ/Tw6jGZKZH>

For General Requirement

<http://gofile.me/4KFWQ/2pcXexOnz>

The Calls for Public Comments will be in 2 Phases. Phase 1 to be made available on 9 Sept 2020 and will comprise the following Sections: -

1. Architecture (Annex 1)
2. C&S (Annex 2)
3. M&E (Annex 3-Phase 1)

The closing date to submit comments for Phase 1 is **8 October 2020**.

Phase 2 Calls for Public Comments to be made available not later than 9 October 2020. The closing date to submit comments is by **23 Oct 2020** and will comprise the balance of the M&E Sections (Annex 3-Phase 2) and General Requirements (Annex 4).

The viewing period for the Draft Specifications will expire on the closing of the Public Comments period and will no longer be available after the above dates.

Please email your comments in the feedback form to iNPQS at support@inpq.com.

Thank you for your comments.

Submit Now

Architecture Sections (Total 53 Sections)

Annex 1

Work Package	Section		Phase 1	Phase 2
A01 MASONRY	A01-010	BRICKWORK	√	
	A01-020	BLOCKWORK	√	
	A01-030	LIGHTWEIGHT CONCRETE PANELS	√	
	A01-040	PRECISION BLOCKS	√	
	A01-050	PRECAST VENT BLOCKS	√	
	A01-060	GLASS BLOCKS	√	
A02 WALL SYSTEMS AND FINISHES	A02-010	DRY WALL PARTITIONS	√	
	A02-020	PAINTINGS AND COATINGS	√	
	A02-030	PLASTERS AND RENDERS	√	
	A02-040	WALL TILING	√	
	A02-050	GLASS PARTITIONS	√	
A03 CURTAIN WALL SYSTEMS	A03-010	SEMI-UNITISED AND CASSETTE SYSTEM	√	
	A03-020	STICK CURTAIN WALL SYSTEM	√	
	A03-030	POINT SUPPORT SYSTEM	√	
	A03-040	GLASS FIN SYSTEM	√	
A04 FAÇADE SYSTEMS	A04-010	METAL CLADDING	√	
	A04-020	PRECAST CONCRETE CLADDING	√	
	A04-030	STONE CLADDING	√	
	A04-060	WINDOWS	√	
	A04-070	SUN-SCREENS AND LOUVRES	√	
A05 ROOFING SYSTEMS	A05-010	METAL ROOF SYSTEM	√	
	A05-020	TILE ROOF SYSTEM	√	
	A05-030	CONCRETE ROOF SYSTEM	√	
	A05-040	GLASS ROOF SYSTEM	√	

Architecture Sections (Total 53 Sections)

Annex 1

Work Package	Section		Phase 1	Phase 2
A07 FLOOR SYSTEMS AND FINISHES	A07-010	FLOOR SCREEDS AND HARDENERS	√	
	A07-020	TIMBER FLOORING	√	
	A07-030	RESILIENT FLOORING	√	
	A07-040	CARPETS	√	
	A07-050	RAISED FLOOR SYSTEM	√	
	A07-060	FLOOR TILING	√	
A08 CEILING SYSTEMS	A08-010	ZINC-COATED ALUMINIUM AND ZINC-COATED STEEL CEILING	√	
	A08-020	LINEAR STRIP CEILING	√	
	A08-030	MINERAL FIBRE BOARD CEILING	√	
	A08-040	SEAMLESS BOARD CEILING	√	
	A08-050	SKIM COAT TO EXPOSED SLAB SOFFIT	√	
A09 DOORS AND SHUTTERS	A09-010	DOORS	√	
	A09-020	ROLLER SHUTTERS	√	
A10 METAL WORKS	A10-010	STEEL WORKS	√	
	A10-020	ALUMINIUM WORKS	√	
A11 TIMBER WORKS	A11-010	TIMBER WORKS	√	
A12 FIXTURES AND FITTINGS	A12-010	IRONMONGERY	√	
	A12-020	SIGNAGES	√	
	A12-030	FABRICATED FIXTURES	√	
	A12-040	SANITARY WARES AND FITTINGS	√	
A14 WATERPROOFING SYSTEMS	A14-010	DAMP-PROOF MEMBRANES	√	
	A14-020	LIQUID-APPLIED MEMBRANE SYSTEM	√	
	A14-030	CEMENTITIOUS SYSTEM	√	
A15 LANDSCAPING WORKS	A15-010	HARDSCAPE WORKS	√	
	A15-020	SOFTSCAPE WORKS	√	
	A15-030	POOL FINISHES	√	
A16 RAINWATER DISCHARGE SYSTEM	A16-010	CONVENTIONAL RAINWATER DRAINAGE SYSTEM	√	
	A16-020	SIPHONIC RAINWATER DRAINAGE SYSTEM	√	
	A16-030	WIND-DRIVEN RAINWATER DRAINAGE SYSTEM	√	

C&S Sections (Total 36 Sections)

Work Package	Section	Phase 1	Phase 2	
C01 SITE PREPARATION WORKS	C01-010 Demolition and Site Clearance	√		
	C01-020 Condition Survey	√		
C02 GROUND WORKS	C02-010 Ground Investigation	√		
	C02-020 General Earthworks (Excavation and Filling)	√		
	C02-030 Embedded Retaining Wall	C02-030-01 Diaphragm Walls	√	
		C02-030-02 Sheet Piling	√	
		C02-030-03 Contiguous Bored Pile Walls & Secant Pile Walls	√	
	C02-040 Soil Improvement	C02-040-01 Jet Grouting Method	√	
		C02-040-02 Vibroflotation	√	
		C02-040-03 PVD Vertical Drains		√
	C02-050 Instrumentation and Monitoring	√		
	C02-060 Tunnelling	C02-060-01 Bored Tunnelling	√	
C03 CONCRETE WORKS	C03-010 Concrete Construction Generally	√		
	C03-020 Reinforcement	√		
	C03-030 Formwork and Falsework	√		
	C03-040 Designed Joints	√		
	C03-050 Water-resistance to Concrete Structures	√		
	C03-060 Precast Concrete Works	√		
	C03-070 Prestressed Concrete Works	√		
	C03-080 Concrete Repair	√		
	C03-090 Special Concrete	C03-090-01 Ferrocement	√	
	C03-100 Sprayed Concrete		√	
	C03-110 Fibre Reinforce Concrete		√	
C04 PILING WORKS	C04-010 Bored Piling	√		
	C04-020 Displacement Piling	√		
	C04-030 Pile Testing	√		

C&S Sections (Total 36 Sections)

Work Package	Section	Phase 1	Phase 2
C05 STRUCTURAL METALWORKS	C05-010 Structural Steelwork	√	
	C05-020 Protective Works for Structural Steelwork	√	
C06 DRAINAGE AND SEWERAGE WORKS	C06-010 Sewers Construction	√	
	C06-020 Drains Construction	√	
C07 ROADWORKS AND PAVEMENTS	C07-010 Construction of Roads and Footpaths	√	
	C07-020 Pavement for Roads and Footpaths	√	
	C07-030 Road Ancillaries	√	
C08 STRUCTURAL TIMBER WORKS	C08-010 Structural Timberwork	√	
	C08-020 Mass Engineered Timber (MET)	√	
C09 HOUSEHOLD SHELTERS	C09-010 Household Shelters	√	

Work Package	Classes		Section	Phase 1	Phase 2	
ELECTRICAL	E01	HT SWITCHGEARS	E01-010	HV Switchgears	√	
			E01-020	Gas Insulated Switchgears	√	
			E01-040	Protective Relays	√	
	E02	POWER TRANSFORMERS	E02-010	Dry Type Transformers	√	
			E02-020	Oil Immersed Transformers	√	
	E03	EARTHING	E03-010	Sub-Station & System Earthing		√
			E03-020	Earthing & Bonding		√
	E04	LV SWITCHGEAR & DISTRIBUTION BOARDS	E04-010	LV Switchgear & Controlgear Assemblies - General Requirements	√	
			E04-020	LV Switchgear & Controlgear Assemblies - Air Circuit Breakers	√	
			E04-030	LV Switchgear & Controlgear Assemblies - Moulded Case Circuit Breakers	√	
			E04-040	Measuring Relays & Protection Equipment - Protective Relays	√	
			E04-050	LV Switchgear & Controlgear Assemblies - Switches, Disconnectors & Fuse Combination Units	√	
			E04-060	Power metering and monitoring devices - Instrument & Metering	√	
			E04-070	LV Power Factors Correction Bank - Power Capacitors	√	
			E04-080	Distribution Boards using MCB & Fuses	√	
			E04-090	Overground (OG) Box	√	
			E04-100	Protective Devices	√	
	E05	GENERATORS	E05-010	Emergency Standby Generators		√
	E06	CABLES	E06-010	High Voltage Power Cables	√	
			E06-020	Low Voltage Power Cables	√	
			E06-030	Low Voltage Wiring Cables	√	
			E06-040	Structured Cabling	√	
	E07	DRAWPITS, MANHOLES, CABLES LADDERS, CABLE TRAYS, TRUNKING & CONDUITS	E07-010	Drawpits, Manholes & Underground Cable Ducts		√
			E07-020	Conduit		√
			E07-030	Trunking		√
			E07-040	Trunking (Other Types)		√
			E07-050	Cable Tray & Ladder		√
	E08	RISING MAINS	E08-010	Busbar Trunking		√
			E08-020	Cable Riser		√
	E09	LUMINARIES	E09-010	Interior Luminaries		√
			E09-020	Exterior Luminaries & Lamps		√
			E09-030	Lamps		√
			E09-040	Fibre Optic Systems		√
E09-050			Auxiliary Lighting Equipment		√	
E09-060			Emergency Lighting		√	
E10	WIRING ACCESSORIES	E09-070	Lighting Control Systems		√	
		E10-010	Accessories & Mounting Heights		√	
E11	LIGHTNING PROTECTION	E11-010	Lightning Protection System		√	
		E11-020	Transient Over-Voltage Protection		√	
E12	UPS	E12-010	Static UPS System		√	
		E12-020	Dynamic UPS System		√	
E15	BATTERIES & CHARGES	E15-010	Batteries & Chargers	√		
E17	POWER QUALITY	E17-010	Power Conditioner & Voltages Stabilisers		√	
E18	SOLAR PV SYSTEMS	E18-010	Grid-Connected Photovoltaic (PV) System	√		
EXTRA LOW VOLTAGE	E13	COMMUNICATION	E13-020	Public Address System		√
			E13-030	Telephone Systems		√
			E13-010	Emergency Voice Communication Systems (EVCS)	√	
	E14	SECURITY SYSTEM	E14-010	Intruder Detection & Alarm		√
			E14-020	Closed Circuit TV Systems		√
			E14-030	Access Control Systems		√
			E14-040	Patrol Guard Tour System		√
			E14-050	Car Parking Systems		√
	E16	AUDIO VISUAL	E16-010	Audio-Visual Systems		√

M&E Sections (Total 128 Sections)

Work Package	Classes		Section	Phase 1	Phase 2		
LIFTS & ESCALATORS	L01	LIFTS & ESCALATORS	L01-010	Hydraulic & Traction Lifts	√		
			L01-020	Escalators & Moving Walkways		√	
			L01-030	Accessible Platform Lift	√		
ACMV	M01	PIPED WATER DISTRIBUTION	M01-010	Circulating Pumps	√		
			M01-020	Pipework, Valves & Fittings	√		
			M01-030	Thermal Insulation	√		
			M01-040	Water Treatment	√		
			M01-050	Expansion Tank	√		
			M01-060	Water Heat Exchanger		√	
			M01-090	System Commissioning & Testing for Piped Distribution System	√		
	M02	COOLING EQUIPMENT	M02-010	Water Cooled Water Chiller	√		
			M02-020	Air Cooled Water Chiller	√		
			M02-030	Cooling Towers	√		
			M02-040	Air Cooled Packaged Air Conditioning Unit	√		
			M02-050	Water Cooled Packaged Air Conditioning Unit	√		
			M02-060	Computer Room Air Conditioning (CRAC) Unit	√		
			M02-070	Variable Refrigerant Flow Air Conditioning Unit	√		
			M02-080	Air Cooled Split Air Conditioning Unit	√		
			M02-090	System Commissioning & Testing	√		
	M03	AIR DISTRIBUTION SYSTEMS & EQUIPMENT	M03-010	Ductwork Systems	√		
			M03-020	Air Systems Insulation	√		
			M03-030	Air Handling Units	√		
			M03-040	Dedicated Outdoor Air Unit		√	
			M03-050	Fan Coil Units	√		
			M03-060	Ventilation Fans	√		
			M03-070	Heat Wheel Recovery Unit		√	
	M04	AIR TERMINAL DEVICES	M04-010	Grilles, Diffusers, Displacement Ventilation Terminals	√		
			M04-020	Variable Air Volume (VAV) Box	√		
			M04-030	Variable Air Volume (VAV) Diffuser	√		
			M04-090	System Commissioning & Testing for Air Terminal Devices	√		
	M05	SPECIAL EXTRACTION SYSTEMS	M05-010	Kitchen Extract Ventilation	√		
			M05-020	Smoke Control	√		
			M05-030	Fume Extract	√		
			M05-040	Car Park Ventilation	√		
			M05-050	Toilet Ventilation	√		
	M06	COMMON RELATED WORKS	M06-080	Related Electrical Works	√		
	BMS	M07	SOFTWARE	M07-010	General Specification		√
				M07-030	Data Base Structure & Data Processing		√
				M07-040	User Interface (HMI) / Data Acquisition		√
M07-050				Alarm Management / Fault Detection and Diagnostics (FDD) / Data Analytics		√	
M07-060				System Access & Cyber Security / System Architecture & Expandability		√	
M08				NETWORK	M08-010	Network Configuration	
			M08-020	Protocols		√	
M09		FIELD DEVICES	M09-010	Controllers		√	
			M09-020	Sensors & Transmitters		√	
			M09-030	Control Dampers, Valves & Actuators		√	
			M09-040	Variable Speed Drive		√	
M10	MONITOR, CONTROL & ENERGY CONTROL STRATEGIES	M10-010	Equipment Sequencing Scheduling & Optimization		√		
M11	TESTING & COMMISSIONING	M11-010	System Commissioning & Testing		√		

M&E Sections (Total 128 Sections)

Work Package	Classes		Section		Phase 1	Phase 2		
FIRE PROTECTION	F01	FIRE PUMPS	F01-010	Fire Pumps	√			
	F02	WATER TANKS	F02-010	Fire Water Storage Tanks	√			
	F03	PIPEWORKS, VALVES & FITTINGS	F03-010	Pipework, Valves & Fittings	√			
	F05	GAS BASED FIRE SUPPRESSION SSYSTEMS	F05-010	Clean Agent Suppression System	√			
	F06	CHEMICAL BASED FIRE SUPPRESSION SYSTEMS	F06-010	Portable Fire Extinguisher	√			
	F07	FIRE DETECTION & ALARM SYSTEMS	F07-010	Fire Detection & Alarm Systems	√			
	F08	COMMON RELATED WORKS	F08-010	Related Electrical Works	√			
	F09	SYSTEM COMMISSIONING & TESTING	F09-010	System Commissioning & Testing for Fire Sprinkler Systems	√			
			F09-020	System Commissioning & Testing for Fire Hosereel Systems	√			
F09-030			System Commissioning & Testing for Fire Hydrants & Rising Mains Systems	√				
PLUMBING & SANITARY	P01	HOT & COLD WATER SYSTEMS	P01-010	Pipework, Valves & Fittings	√			
			P01-020	Pumps	√			
			P01-030	Water Storage	√			
			P01-050	Sterilisation	√			
			P01-060	Water Heater	√			
			P01-080	Related Electrical Work	√			
			P01-090	System Commissioning & Testing	√			
			P02	COMPRESSED AIR SERVICES	P02-010	Compressed Air Plant	√	
			P03	BOILER & STEAM SERVICES	P03-010	Boilers	√	
	P05	SANITARY DRAINAGE SERVICES	P05-010	Pipework, Valves & Fittings	√			
			P05-020	Manholes & Inspection Chambers	√			
			P05-030	Sanitary Drainage Equipment	√			
			P05-080	Related Electrical Works	√			
	P06	GAS DISTRIBUTION	P05-090	System Commissioning & Testing	√			
			P06-010	Gas Installation	√			
	P07	SWIMMING POOL FILTRATION & STERILIZATION	P07-010	Pipework & Equipment	√			

General Requirements Section

Annex 4

Work Package	Section		Phase 1	Phase 2
General Requirements	G01-010	GENERAL REQUIREMENTS PARTS		√