NSCS Project Specification

i) The specification for the structure shall be the National Structural Concrete Specification for Building Construction (NSCS)

ii) The NSCS Project Specification is provided by the Employer and identifies the appropriate information specific to the structure over and above that stated in NSCS Standard Specification. Clauses in the Standard Specification may be modified by information given in the Project Specification.

Project name

|  |
| --- |
|  |

Project ref.

|  |
| --- |
|  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by |  |  | Date |  |

Revisions

| Revision | Date | Clauses | | | Notes |
| --- | --- | --- | --- | --- | --- |
|  |  | Deleted | Amended | Added |  |
|  |  |  |  |  |  |

# SECTION 1 Information to be supplied TO the Constructor

## P1.1 General information

### P1.1.1 Project contacts

|  |  |
| --- | --- |
| Project name |  |
| Project ref |  |
| Address |  |

Employer

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | | |
| Address |  | | |
| Contact name |  | | |
| Telephone |  | E-mail |  |

Principal Contractor

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | | |
| Address |  | | |
| Contact name |  | | |
| Telephone |  | E-mail |  |

Engineer

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | | |
| Address |  | | |
| Contact name |  | | |
| Telephone |  | E-mail |  |

Contract Administrator (CA)

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | | |
| Address |  | | |
| Contact name |  | | |
| Telephone |  | E-mail |  |

Other named parties to the Contract:

|  |  |
| --- | --- |
| Name |  |

### P1.1.2 Description of the project works

Nature of building and intended use, number of floors, column grids, stair and core, stability system, foundations, basements, location of water-resisting construction, special finishes, relevant project sustainability targets and procedures, etc.

|  |
| --- |
|  |

### P1.1.3 Construction planning requirements:

Note: the information here is largely reproduced from the Contract Documents to assist the Constructor in the preparation of Section P2. The Constructor should notify the CA if any discrepancy is identified between the Contract Documents and the Specification.

Where details of the site conditions are provided, such as underground services, overhead cables, adjacent buildings and site obstructions, they are given to assist the Constructor in their tender stage planning. The Constructor should always confirm the accuracy of this information when on site, before starting work.

**General**

|  |
| --- |
|  |

**Positions of the Reference Line** (as defined in BS EN 13670) datum level and setting-out lines, width and level of access, level of the prepared working area for site traffic, cranes and pumps, and areas available for storage and site accommodation are shown on drawing numbers:

|  |
| --- |
|  |

**Details of Underground services**, overhead cables, adjacent buildings, site obstructions or other constraints on the Constructor.

|  |
| --- |
|  |

**Availability of site services** and any pre-arranged procedures for sole or shared use:

|  |
| --- |
|  |

**Factors affecting construction sequence**, including working restrictions on time or special nuisance (including noise); or other aspects that may create an unusual hazard:

|  |
| --- |
|  |

**Special requirements for temporary propping:**

|  |
| --- |
|  |

**Restrictions on dimensions** and/or weights of units to be delivered to site:

|  |
| --- |
|  |

**Interface Requirements/restrictions** between the Works and following trades:

|  |
| --- |
|  |

**Special requirements for headroom:**

|  |
| --- |
|  |

**A programme** showing clearly any phased requirements and the earliest and the latest release dates of work to following trades or to the Employer is shown on drawing numbers:

|  |
| --- |
|  |

**Access will be made available** to the Constructor on:

|  |
| --- |
|  |

**Environmental Factors** relating to achievement of Considerate Constructors or Site Waste Management requirements:

|  |
| --- |
|  |

## P1.2 Design

### P1.2.1 General

The design has been carried out in accordance with BS EN 1990, BS EN 1991 and BS EN 1992.Any design by the Constructor is to be carried out in accordance with these codes and the design data given in this specification.

|  |
| --- |
|  |

### P1.2.2 Loading

| Loading (kN/m2) | | Location | Location | Location | Location | Location |
| --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  |  |  |
| Imposed | General |  |  |  |  |  |
|  | Partitions |  |  |  |  |  |
| Total imposed | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Dead load | Self-weight |  |  |  |  |  |
|  | Partitions |  |  |  |  |  |
|  | Flooring |  |  |  |  |  |
|  | Screed |  |  |  |  |  |
|  | Services |  |  |  |  |  |
|  | Ceiling |  |  |  |  |  |
| Total dead load | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cladding |  |  |  |  |  |  |
| Wind |  |  |  |  |  |  |
| Other | |  |  |  |  |  |

### P1.2.3 Other design data

| Design data | Location | Location | Location | Location | Location |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| Fire rating (hours) |  |  |  |  |  |
| Exposure Class |  |  |  |  |  |
| Design life (years) |  |  |  |  |  |
| Maintenance/ replacement assumptions |  |  |  |  |  |
| Other |  |  |  |  |  |

### P1.2.4 Special requirements for composite structures

|  |
| --- |
|  |

## P1.3 Drawings and calculations

Project values should be entered in the grey panels

**Notes**

1 Types of construction: 2 Format  
RC: Reinforced concrete P: Paper  
PCE: Precast concrete elements E: Electronic  
PCP: Precast concrete products in accordance with product standards B: Both  
PSC: Prestressed concrete

|  | | Preparation | | Tender issue | | Acceptance issue | | | | Construction issue | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type  Note 1 | | Prepared by | Format  Note 2 | Number of copies | | Number of copies | | Period before construction (weeks) | | Number of copies | | Period before construction  (weeks) | |
| Project | Default | Project | Default | Project | Default | Project | Default | Project | Default | Project |
| General arrangement drawings | RC | CA |  | 2 |  |  |  |  |  | 5 |  | 11 |  |
| PCP | CA |  | 2 |  |  |  |  |  | 5 |  | 11 |  |
| PCE | CA |  | 2 |  |  |  |  |  | 5 |  | 11 |  |
| PSC | CA |  | 2 |  |  |  |  |  | 5 |  | 11 |  |
| Design Information drawings | RC | CA |  |  |  |  |  |  |  | 5 |  | 11 |  |
| PCP | CA |  |  |  |  |  |  |  | 5 |  | 11 |  |
| PCE | CA |  |  |  |  |  |  |  | 5 |  | 11 |  |
| PSC | CA |  |  |  |  |  |  |  | 5 |  | 11 |  |
| Construction sequence info | All | CA |  | 2 |  |  |  |  |  | 5 |  | 11 |  |
| Design calculations | RC | Constructor |  |  |  | 3 |  | 8 |  | 5 |  | 5 |  |
| PCP | Manufacturer |  |  |  | 3 |  | 8 |  | 5 |  | 5 |  |
| PCE | Constructor |  |  |  | 3 |  | 8 |  | 5 |  | 5 |  |
| PSC | Constructor |  |  |  | 3 |  | 8 |  | 5 |  | 5 |  |
| Specialist drawings | RC |  |  |  |  | 3 |  | 8 |  | 5 |  | 5 |  |
| PCP | Constructor |  |  |  | 3 |  | 8 |  | 5 |  | 5 |  |
| Enter details as required | PCE | Constructor |  |  |  | 3 |  | 8 |  | 5 |  | 5 |  |
| PSC | Constructor |  |  |  | 3 |  | 8 |  | 5 |  | 5 |  |
| Reinforcement drawings and schedules | RC |  |  |  |  | 3 |  | 7 |  | 5 |  | 5 |  |
| Pre-cast concrete elements | PCP | Manufacturer |  |  |  |  |  |  |  |  |  |  |  |
| PCE | Constructor |  |  |  | 3 |  | 7 |  | 5 |  | 3 |  |
| PSC | Constructor |  |  |  | 3 |  | 7 |  | 5 |  | 3 |  |
| Builders’ work information | All | CA |  |  |  | 3 |  | 6 |  |  |  |  |  |
| Coordinated builders work drawings | All |  |  |  |  | 3 |  | 4 |  | 5 |  | 2 |  |
| Temporary works and erection drawings and/or calculations and method statements | All | Constructor |  |  |  | 3 |  | 4 |  | 5 |  | 2 |  |
| As-built drawings | All |  |  |  |  |  |  |  |  | 3 |  | Months after completion | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## P1.4 Execution management

### P1.4.1 Execution Class

The following parts of the structure are to be constructed in accordance with execution Class 3:

|  |
| --- |
|  |

### P1.4.2 Execution documentation

The following documentation is required:  
Project values should be entered in the grey panels.

| Information | When required Number of working days before construction with updates as requested unless noted | | Format/Notes P = Paper E = Electronic B = Both | |
| --- | --- | --- | --- | --- |
| Default | Project | Default | Project |
| Contractor’s Quality Assurance Certification | At tender |  | Paper |  |
| SpeCC registration or equivalent | As requested |  | Paper |  |
| Detailed construction programme | 20 |  | Paper |  |
| Falsework and formwork: design | 20 |  | Calculations & drawings |  |
| Falsework and formwork: pre-concreting cleanliness | As requested |  | Paper |  |
| Reinforcement: source and supplier | 20 |  | Paper |  |
| Reinforcement: Certification | 20 |  | Paper |  |
| Reinforcement: pre-concreting location | As requested |  | Paper |  |
| Spacers | As requested |  | Paper |  |
| Couplers: source and supplier | 20 |  | Paper |  |
| Couplers: Certification | 20 |  | Paper |  |
| Continuity strips: source and supplier | 20 |  | Paper |  |
| Continuity strips: Certification | 20 |  | Paper |  |
| Post tensioning work: |  |  |  |  |
| Certification | 20 |  | Paper |  |
| Specific quality plan | 20 |  | Paper |  |
| Other information | As Cl P1.11.3 |  | Paper |  |
| Concrete: readymix plant details | 20 |  | Paper |  |
| Concrete: readymix producers’ certification | 20 |  | Paper |  |
| Concrete: delivery ticket | As requested |  | Paper |  |
| Concreting: method statement and pour sequence for each section of the work | 5 |  | Paper |  |
| Precast concrete | As Table P1.10 |  | Paper |  |
| As built geometry: setting out and dimensions | 10 working days after the construction is complete at each level |  | Paper |  |
| As built geometry: reinforcement cover | As requested |  | Cover meter survey |  |
| Environmental certification and responsible sourcing documentation where required: relating to reinforcement, aggregate, cementitious materials, formwork and concrete supply | 20 |  | Paper |  |

### P1.4.3 Approvals timing

The timings given in NSCS Standard Specification apply to all approvals except as noted below.  
Project values should be entered in the grey panels.

| Standard Specification clause ref. | Item | Requirements  Before or after as appropriate. Working days unless stated | |
| --- | --- | --- | --- |
|  |  | Default | Project |
| 4.1.2.1 | Material test results | 10 |  |
| 4.2.1 | Quality plan | 5 |  |
| 4.3.3 | Notice to CA for concrete pour inspection | 1 |  |
| 4.3.3 | Before prestressing work starts | 1 |  |
| 4.3.3 | Before covering up or backfilling | 5 |  |
| 4.3.3 | For water-resisting construction to allow joint inspections | 5 |  |
| 4.3.4 | Response by CA to request for modifications | 5 |  |
| 4.3.7 | Copies of test results | 3 No. |  |
| 4.3.8 | Proposal and response time for work rectification | 5 & 5 |  |
| 6.2.1 | Notice to CA for site changes to reinforcement | 1 |  |
| 7.1.1.4 | Extension calculations for post-tensioning tendons | 10 |  |
| 7.3.1.1 | Notice to CA for site changes to post-tensioning tendons | 1 |  |
| 7.4.1 | Grouting records | 5 |  |
| 8.1.2.1 | Concrete non-conformity | 24 hours |  |
| 8.2.1.3 | Method of fixing kickerless shutters | 5 |  |
| 8.2.1.4 | Premature cessation of a pour | 2 hours |  |
| 9.1.2 | Precast connection details | 15 |  |
| 9.1.3 | Precast erection specification and work programme | 5 |  |
| 9.5.3 | Proposals for cutting standard precast products | 5 |  |
| Other |  |  |  |

### P1.4.4 Inspection

**Items not defined** in table 1 of BS EN 13670 shall be inspected as follows:

|  |
| --- |
|  |

|  |
| --- |
| Additional third party inspection, carried out by       is required of the following parts of the structure: |

|  |
| --- |
|  |

### P1.4.5 Documents

The following **special documentation** is required:

|  |
| --- |
|  |

Requirements for **responsible sourcing** documentation:

|  |
| --- |
|  |

### P1.4.6 As built geometry

The **overall concrete** dimension shall be checked:

| List of requirements | Frequency |
| --- | --- |
|  |  |

The **cover to reinforcement** shall be checked:

| List of requirements | Frequency |
| --- | --- |
|  |  |

### P1.4.7 Curing class

List where curing classes other than 2 shall be used:

| Class | Location |
| --- | --- |
|  |  |

### P1.4.8 Protection

The following special protection is required:

|  |
| --- |
|  |

## P1.5 Materials

### P1.5.1 Reinforcement

**Stainless steel** reinforcement shall be used in the following locations:

|  |
| --- |
|  |

**Epoxy coated** steel reinforcement shall be used in the following locations:

|  |
| --- |
|  |

**Anchorages and couplers** shall be:

|  |
| --- |
|  |

**Fibres** shall be used as follows:

| Type of fibres | Location & dosage |
| --- | --- |
|  |  |

Requirements for **responsible sourcing** of reinforcement:

|  |
| --- |
|  |

### P1.5.2 Timber

Requirement for **responsible sourcing** of timber or timber products:

|  |
| --- |
|  |

### P1.5.3 Other materials

**Materials not permitted**:

|  |
| --- |
|  |

**Materials requiring special consideration**:

|  |
| --- |
|  |

**Items supplied by the Employer:**

|  |
| --- |
|  |

Requirement for **responsible sourcing** of materials:

|  |
| --- |
|  |

List of materials to be supplied under **Constructor-specified supply**:

|  |
| --- |
|  |

## P1.6 Project requirements

Enter variations from NSCS Standard Specification

| Standard Spec. Clause ref | Change | Description |
| --- | --- | --- |
|  |  |  |

## P1.7 Water-resisting construction

### P1.7.1 Detail

The required performance for water-resisting construction is to be achieved by the use of materials and details listed below and as shown on construction drawings.

| Location | Detail | Waterstops | Separation membranes | Joint fillers |
| --- | --- | --- | --- | --- |
|  | Manufacturer |  |  |  |
|  | Material |  |  |  |
| Slabs: horizontal construction joints | Type |  |  |  |
| Slabs: horizontal movement joints | Type |  |  |  |
| Walls :horizontal slab/wall junctions | Type |  |  |  |
| Walls: vertical construction joints | Type |  |  |  |
| Walls: vertical movement joints | Type |  |  |  |

or

|  |  |
| --- | --- |
| Constructor selection and installation of materials and systems, as appropriate, to achieve a Grade | |
| environment using the classification in BS 8102: 2009, Table 2. The water table classification in accordance with | |
| BS 8102: 2009, Table 1 is . | The risk associated with groundwater is considered to be |

**Note:** Section 2.6 to be completed.

### P1.7.2 Crack widths

|  |  |
| --- | --- |
| These should be limited to |  |

## P1.8 Concrete

### P1.8.1 Designated concrete

To be In accordance with BS 8500−2 and BS EN 206−1

Project values should be entered in the grey panels.

**Notes**

1. All sections of the Specification must be completed before it is passed to the Producer. The person sending the final specification to the producer must send copies of the document to all other parties (CA, Engineer, Employer, as appropriate) who have contributed to the Specification.

2. Where ‘None’ is entered in the table this is a default value to ensure that the Specification is complete. All those involved in completing the specification need to check if ‘None’ is appropriate.

3. Guidance on specification of designated concrete can be found in BS 8500−1: 2006, Section 4.2.

|  | Requirements | Defaults | Project | Project | Project |
| --- | --- | --- | --- | --- | --- |
| 1. | Concrete designation  (Ref. BS 8500−2: 2006, Table 5) |  |  |  |  |
| 2. | Maximum aggregate size (mm) Enter 10, 14, 20 or 40 | 20 |  |  |  |
| 3. | Slump class S1, S2, S3, S4 or other value | S3 |  |  |  |
| 4. | Special restrictions on cement types (enter reference if required) | None |  |  |  |
| 5. | Special requirements for aggregates (enter reference if required) | None |  |  |  |
| 6. | Use of RCA permitted? Maximum mass fraction of total coarse aggregate enter a higher mass fraction of total coarse aggregate, where permitted  (Ref. BS 8500−1: 2006, Cl. 4.2.3c) | Yes |  |  |  |
| 20% |  |  |  |
| 7. | Requirements for accelerated or retarded set | None |  |  |  |
| 8. | Special colour requirements None or see P1.9 | None |  |  |  |
| 9. | Type and dosage of fibres | See P1.5.1 |  |  |  |
| 10. | Chloride class Cl 1,0 for GEN series, Cl 0,20 for SRPC, Cl 0,40 for all other concretes or enter special requirements | As  BS 8500-1 |  |  |  |
| 11 | Minimum air content | None |  |  |  |
| 12 | Method of placing concrete |  |  |  |  |
| 13 | Requirement for finishing concrete | See P1.9 |  |  |  |
| 14. | Identity testing for consistence or other properties required in accordance with  BS EN 206: 2000 Annex B  and BS 8500−1: 2006 Annex B (If yes then details to be added into P1.13) | No |  |  |  |

### P1.8.2 Designed concrete

To be In accordance with BS 8500−2 and BS EN 206−1

Project values should be entered in the grey panels.

**Notes**

1. All sections of the specification must be completed before it is passed to the producer. The person sending the final specification to the producer must send copies of the document to all other parties (CA, Engineer, Employer as appropriate) who have contributed to the specification.

No longer required? Yes needed

2. Where ‘None’ is entered in the table this is a default value to ensure that the specification is complete. All those involved in completing the specification need to check if ‘None’ is appropriate.

3. Guidance on specification of designed concrete can be found in BS 8500−1: 2006, Section 4.3.

|  | Requirements | Defaults | Project |
| --- | --- | --- | --- |
| 1. | Concrete reference |  |  |
| 2. | Strength class |  |  |
| 3. | Maximum water-cement ratio |  |  |
| 4. | Minimum cement content kg/m3 |  |  |
| 5. | DC-Class where appropriate |  |  |
| 6. | Permitted cement types - See BS 8500-1:2006, Cl. 4.3.2, Note 3 |  |  |
| 7. | Maximum aggregate size (mm) - Enter 10, 14, 20 or 40 | 20 |  |
| 8. | Chloride class (a value must be entered unless Cl 0,40 is acceptable) | Cl 0,40 |  |
| 9. | Target density/density class (for lightweight and heavyweight concrete) | N/A |  |
| 10 | Consistence class S1, S2, S3, S4 |  |  |
| 11 | Method of placing concrete |  |  |
| 12 | Requirement for finishing concrete | See P1.9 |  |
| 13 | Type and dosage of fibres | See P1.5.1 |  |
| 14.  What goes in here??? | Use of RA conforming to BS 8500-2:2006, Cl. 4.3, permitted?  If YES: enter requirements for: | Yes |  |
| Maximum acid-soluble sulphate, method for determination of the chloride content classification with respect to ASR, method for determination of alkali content., any limitations on use in concrete, e.g. exposure classes, maximum mass fractions etc (Enter details in P1.13) | RCA permitted to 20% mass fraction |  |
| 15 | Special requirements for aggregates | None |  |
| 16 | Minimum air content, or other requirements to resist freeze-thaw attack | None |  |
| 17 | Special requirements for temperature of fresh concrete | None |  |
| 18 | Special requirements for strength development | None |  |
| 19 | Special requirements for heat development during hydration | None |  |
| 20 | Special requirements for retarded stiffening | None |  |
| 21 | Special requirements for resistance to water penetration | None |  |
| 22 | Special requirements for resistance to abrasion | None |  |
| 23 | Requirements for tensile splitting strength | None |  |
| 24  Gb wording  OK | Additional technical requirements See BS 8500−1: 2006, Cl. 4.3.3 sections n & m | None |  |
| 25. | Identity Strength testing required? (If Yes then details to be added into P1.13) | None |  |
| 26. | Identity Consistence testing required? (If Yes then details to be added into P1.13) | None |  |
| 27. | Other properties Identity testing required? (If Yes then details to be added into P1.13) | None |  |

### P1.8.3 Prescribed concrete

To be in accordance with BS 8500 -2 and BS EN 206−1.

Project values should be entered in the grey panels.

**Notes**

1. All sections of the Specification must be completed before it is passed to the Producer. The person sending the final specification to the Producer must send copies of the document to all other parties (CA, Engineer, Employer) as appropriate who have contributed to the specification.

2. Where ‘None’ is entered in the table this is a default value to ensure that the Specification is complete. All those involved in completing the Specification need to check if ‘None’ is appropriate.

No [none] in table

Is Now

3. Guidance on specification of Prescribed concrete can be found in BS 8500−1: 2006, Section 4.4

|  | Requirements | Defaults | Project | Project | Project |
| --- | --- | --- | --- | --- | --- |
| 1. | Concrete reference |  |  |  |  |
| 2. | Cement type, class and content |  |  |  |  |
| 3. | Water/cement ratio |  |  |  |  |
| 4. | Consistence Class S1, S2, S3, S4 |  |  |  |  |
| 5. | Type, category and maximum size of aggregate |  |  |  |  |
| 6. | Special requirements for density (for lightweight and heavyweight concrete) | None |  |  |  |
| 7. | Concrete chloride class or maximum chloride content of aggregate |  |  |  |  |
| 8. | Required admixtures - quantity and source of material |  |  |  |  |
| 9. | Additional requirements for source of materials | None |  |  |  |
| 10. | Requirements for proportion of fine aggregate |  |  |  |  |
| 11 | Special requirements for temperature of fresh concrete | None |  |  |  |
| 12 | Additional technical requirements | None |  |  |  |
| 13 | Use of RCA permitted?  Maximum mass fraction of total coarse aggregate Enter a higher mass fraction of total coarse aggregate, where permitted (Ref. BS 8500−1: 2006, Cl. 4.2.3c) | Yes |  |  |  |
| 20% |  |  |  |

### P1.8.4 Standardised prescribed concrete

To be in accordance with BS 8500 -2 and BS EN 206−1.

Project values should be entered in the grey panels.

**Notes**

1. All sections of the Specification must be completed before it is passed to the Producer. The person sending the final Specification to the Producer must send copies of the document to all other parties (CA, Engineer, Employer as appropriate) who have contributed to the Specification.

2. Where ‘None’ is entered in the table this is a default to ensure that the Specification is complete. All those involved in completing the Specification need to check if ‘None’ is appropriate.

3. Guidance on specification of standardised prescribed concrete can be found in BS 8500−1: 2006, Section 4.5.

4. Standardised prescribed concrete produced using sulfate-resisting Portland cement is not intended to produce sulfate-resisting concrete.

|  | Requirements | Defaults | Project | Project | Project |
| --- | --- | --- | --- | --- | --- |
| 1. | Concrete reference |  |  |  |  |
| 2. | Designation |  |  |  |  |
| 3. | State if concrete is reinforced | Unreinforced |  |  |  |
| 4. | Maximum aggregate size (mm) Enter 10, 14, 20 or 40 | 20 |  |  |  |
| 5. | Consistence Class S1, S2, S3, S4 |  |  |  |  |
| 6. | Restrictions on cement types | None |  |  |  |
| 7. | Restrictions on aggregate types | None |  |  |  |
| 8. | Any other special requirements | None |  |  |  |

### P1.8.5 Proprietary concrete

To be in accordance with BS 8500 -2 and BS EN 206−1.

Project values should be entered in the grey panels.

**Notes**

1. All sections of the Specification must be completed before it is passed to the Producer. The person sending the final Specification to the Producer must send copies of the document to all other parties (CA, Engineer, Employer as appropriate) who have contributed to the Specification.

2. Guidance on Specification of proprietary concrete can be found in BS 8500−1: 2006, Section 4.6.

|  | Requirements | Defaults | Project | Project | Project |
| --- | --- | --- | --- | --- | --- |
| 1. | Concrete reference |  |  |  |  |
| 2. | Strength class |  |  |  |  |
| 3. | Exposure class |  |  |  |  |
| 4. | State if concrete is reinforced | Reinforced |  |  |  |
| 5. | Requirement for finishing concrete | See P.1.9 |  |  |  |
| 6. | Any other special requirements, including restrictions on constituents. |  |  |  |  |
| 7. | Use of RCA permitted?  Maximum mass fraction of total coarse aggregate. Enter a higher mass fraction of total coarse aggregate, where permitted  (Ref. BS 8500−1: 2006, Cl. 4.2.3c) | Yes |  |  |  |
| 20% |  |  |  |
| 8. | Producer to provide confirmation, in accordance with BS 8500−1: 2006, Section 5.2j that concrete complies with the above performance requirements | Yes |  |  |  |
| 9 | Identity strength testing required. (If Yes then details to be added into P1.13 in accordance with BS EN 206 Annex B) |  |  |  |  |
| 10 | Identity consistence testing required. (If Yes then details to be added into P1.13 in accordance with BS 8500−1 Annex B) |  |  |  |  |
| 11 | Identity other properties testing required. (If Yes then details to be added into P1.13 in accordance with BS 8500−1 Annex B) |  |  |  |  |

## P1.9 Surface finishes

### P1.9.1 Reference Panels

The Ordinary and Plain Formed Reference Panels for this project are at:

|  |
| --- |
|  |

### P1.9.2 Special finishes

Special Finishes (other than formed or unformed, Basic and Ordinary finishes) are required as follows:

|  |  |
| --- | --- |
| Type |  |
| Location on site |  |
| Similar finish can be seen at |  |
| Concrete mix |  |
| Sample/special requirements |  |

## P1.10 Precast concrete

This is information to be provided for precast concrete works.

| Details to be provided | | At tender | 8 weeks before construction |
| --- | --- | --- | --- |
| Production plant | Details |  |  |
| QA certification |  |  |
| Lifting | Method |  |  |
| Equipment details |  |  |
| Design of lifting point/devices |  |  |
| Location of lifting devices |  |  |
| Handling | Minimum age |  |  |
| Additional reinforcement |  |  |
| Storage details |  |  |
| Transport storage details |  |  |
| Erection | Specification |  |  |
| Work programme |  |  |
| Temporary supports/details |  |  |
| Details of protection |  |  |
| Connections | Details |  |  |
| Preparation |  |  |
| Grouting/packing |  |  |
| Removal of temporary shims etc. |  |  |
| Concrete | Designation |  |  |
| Finishes | Samples of finishes |  |  |
| Details of spacers |  |  |
| Formwork details |  |  |
| Environmental certification | Enter requirements |  |  |

## P1.11 Prestressed concrete construction

The requirements for the prestressed construction are:

|  |
| --- |
|  |

### P1.11.1 Quality audit

|  |
| --- |
| A quality audit carried out by CARES, or equivalent is required. |

### P1.11 2 The stressing sequence required:

| Location | Requirement |
| --- | --- |
|  |  |

### P1.11.3 Other prestressing information required

|  |  |
| --- | --- |
| Transfer strength required for stressing, N/mm2 |  |
| Load/extension graphs shall be plotted for at least four points on in-situ trial tendons– list locations |  |
| Definition of a tendon group |  |
| Specific requirements for anchorages |  |
| Specific requirements for tendon coating materials |  |
| Specific requirements for duct materials |  |
| Method of anchorage sealing |  |
| Full scale grouting trials to be carried out |  |
| Documentary evidence of compliance of anchorage |  |
| Vent labeling is required |  |
| Actual position of tendons to be marked on slab soffit to indicate location in both plan and elevation within the slab. |  |
| Special requirements for crack widths |  |
| Other |  |

## P1.12 Deflection allowances

### P1.12.1 To be used in calculating formwork pre-camber

| Location | Design deflection |
| --- | --- |
|  |  |

### P1.12.2 Design pre-camber required for precast concrete elements

| Location | Design deflection |
| --- | --- |
|  |  |

## P1.13 Further information

Further information to expand data given in Cl P1.1 to P1.12

| Clause ref. | Additional Information |
| --- | --- |
|  |  |

# SECTION 2 Information to be supplied BY the Constructor

Required at tender stage unless noted, with updated information issued for construction

## P2.1 General information

Project contacts

|  |  |  |  |
| --- | --- | --- | --- |
| Project name |  | | |
| Project ref. |  | | |
| Address: |  | | |
| Telephone |  | E-mail |  |

Constructor

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name |  | | | | | |
| Address |  | | | | | |
| Contact Name |  | | | | | |
| Telephone |  | | E-mail |  | | |
| SpeCC Registration Required | |  | | | SpeCC Registration Number |  |

Designer

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | | |
| Telephone |  | E-mail |  |

Temporary works coordinator

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | | |
| Telephone |  | E-mail |  |

Other specialist contractors to be used by Constructor:

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | | |
| Telephone |  | E-mail |  |

## P2.2 Design

Details of any Constructor-designed structure as defined in Table P1.3

|  |
| --- |
|  |

## P2.3 Drawings and calculations

Details of any proposed variation of values in Cl. P1.4 and other specification changes:

|  |
| --- |
|  |

## P2.4 Execution management

### P2.4.1 Construction planning

An information requirement schedule, based on the construction programme and this Specification is to be issued to the CA within two weeks of Constructor being appointed.

### P2.4.2 Other execution management proposals by Constructor:

Details of any other proposals for execution management from the Contractor

|  |
| --- |
|  |

## P2.5 Materials

Details of any alternative materials, or material sources, proposed by Constructor:

|  |
| --- |
|  |

## P2.6 Project requirements

Details of any proposals for alternative specification or workmanship from the Constructor:

|  |
| --- |
|  |

## P2.7 Water-resisting construction

When the Constructor is responsible for the detailed design of water-resisting construction the following materials will be used:

| Location | Detail | Waterstops | Separation membranes | Joint fillers |
| --- | --- | --- | --- | --- |
|  | Manufacturer |  |  |  |
|  | Material |  |  |  |
| Slabs: horizontal construction joints | Type |  |  |  |
| Slabs: horizontal movement joints | Type |  |  |  |
| Walls :horizontal slab/wall junctions | Type |  |  |  |
| Walls: vertical construction joints | Type |  |  |  |
| Walls: vertical movement joints | Type |  |  |  |

## P2.8 Concrete and concreting

Any proposed concrete specification variations, in addition to the Constructor’s input to the tables in section P1.8

|  |
| --- |
|  |

## P2.9 Further information

Further information to expand data given in sections P2.1 to P2.8

| Clause ref. | Additional Information |
| --- | --- |
|  |  |