



CONDITIONS OF CONTRACT FOR PLANT AND DESIGN-BUILD

FIRST EDITION 1999



General Conditions

1 General Provisions

1.1 Definitions

In the Conditions of <u>Contract</u> ("these Conditions"), which include Particular Conditions and these General Conditions, the following words and expressions shall have the meanings stated. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

1.1.1 The Contract

- 1.1.1.1 "**Contract**" means the <u>Contract Agreement</u>, the Letter of Acceptance, the <u>Letter of Tender</u>, these Conditions, the <u>Employer's Requirements</u>, the <u>Schedules</u>, the <u>Contractor's Proposal</u>, and the further documents (if any) which are listed in the <u>Contract Agreement</u> or in the <u>Letter of Acceptance</u>.
- 1.1.1.2 "**Contract Agreement**" means the Contract Agreement (if any) referred to in Sub-Clause 1.6 [*Contract Agreement*].
- 1.1.1.3 "Letter of Acceptance" means the letter of formal acceptance, signed by the Employer, of the Letter of Tender, including any annexed memoranda comprising agreements between and signed by both <u>Parties</u>. If there is no such Letter of Acceptance, the expression "Letter of Acceptance" means the <u>Contract Agreement</u> and the date of issuing or receiving the Letter of Acceptance means the date of signing the <u>Contract Agreement</u>.
- 1.1.1.4 "**Letter of Tender**" means the document entitled Letter of Tender, which was completed by the Contractor and includes the signed offer to the Employer for the <u>Works</u>.
- 1.1.1.5 "**Employer's Requirements**" means the document entitled Employer's Requirements, as included in the <u>Contract</u>, and any additions and modifications to such document in accordance with the <u>Contract</u>. Such document specifies the purpose, scope, and/or design and/or other technical criteria, for the <u>Works</u>.
- 1.1.1.6 "**Schedules**" means the document(s) entitled Schedules, completed by the Contractor and submitted with the <u>Letter of Tender</u>, as included in the <u>Contract</u>. Such document may include data, lists and <u>Schedules</u> of payments and/or prices.
- 1.1.1.7 "Contractor's Proposal" means the document entitled proposal, which



the Contractor submitted with the <u>Letter of Tender</u>, as included in the <u>Contract</u>. Such document may include the Contractor's preliminary design.

- 1.1.1.8 **"Tender**" means the <u>Letter of Tender</u> and all other documents which the Contractor submitted with the <u>Letter of Tender</u>, as included in the <u>Contract</u>.
- 1.1.1.9 **"Appendix to Tender**" means the completed pages entitled Appendix to Tender which are appended to and form part of the <u>Letter of Tender</u>.
- 1.1.1.10 "**Schedule of Guarantees**" and "**Schedule of Payments**" mean the documents so named (if any) which are comprised in the <u>Schedules</u>.

1.1.2 Parties and Persons

- 1.1.2.1 **"Party**" means the Employer or the Contractor, as the context requires.
- 1.1.2.2 **"Employer**" means the person named as Employer in the <u>Appendix to</u> <u>Tender</u> and the legal successors in title to this person.
- 1.1.2.3 "**Contractor**" means the person(s) named as Contractor in the <u>Letter of</u> <u>Tender</u> accepted by the Employer and the legal successors in title to this person(s).
- 1.1.2.4 "**Engineer**" means the person appointed by the Employer to act as the Engineer for the purposes of the <u>Contract</u> and named in the <u>Appendix to</u> <u>Tender</u>, or other person appointed from time to time by the Employer and notified to the Contractor under <u>Sub-Clause 3.4</u> [*Replacement of the Engineer*].
- 1.1.2.5 "**Contractor's Representative**" means the person named by the Contractor in the <u>Contract</u> or appointed from time to time by the Contractor under <u>Sub-Clause 4.3</u> [*Contractor's Representative*], who acts on behalf of the Contractor.
- 1.1.2.6 "**Employer's Personnel**" means the Engineer, the assistants referred to in <u>Sub-Clause 3.2</u> [*Delegation by the Engineer*] and all other staff, labour and other employees of the Engineer and of the Employer; and any other personnel notified to the Contractor, by the Employer or the Engineer, as Employer's Personnel.
- 1.1.2.7 "**Contractor's Personnel**" means the <u>Contractor's Representative</u> and all personnel whom the Contractor utilises on <u>Site</u>, who may include the staff, labour and other employees of the Contractor and of each <u>Subcontractor</u>; and any other personnel assisting the Contractor in the execution of the <u>Works</u>.
- 1.1.2.8 "**Subcontractor**" means any person named in the <u>Contract</u> as a Subcontractor, or any person appointed as a Subcontractor, for a part of



the <u>Works</u>; and the legal successors in title to each of these persons.

- 1.1.2.9 **"DAB**" means the person or three persons so named in the <u>Contract</u>, or other person(s) appointed under <u>Sub-Clause 20.2</u> [*Appointment of the Dispute Adjudication Board*] or <u>Sub-Clause 20.3</u> [*Failure to Agree Dispute Adjudication Board*].
- 1.1.2.10 **"FIDIC**" means the Fédération Internationale des Ingénieurs-Conseils, the international federation of consulting engineers.

1.1.3 Dates, Tests, Periods and Completion

- 1.1.3.1 "**Base Date**" means the date 28 <u>day</u>s prior to the latest date for submission of the <u>Tender</u>.
- 1.1.3.2 "**Commencement Date**" means the date notified under <u>Sub-Clause 8.1</u> [*Commencement of <u>Works</u>*].
- 1.1.3.3 "**Time for Completion**" means the time for completing the <u>Works</u> or a <u>Section</u> (as the case may be) under <u>Sub-Clause 8.2</u> [*Time for Completion*], as stated in the <u>Appendix to Tender</u> (with any extension under <u>Sub-Clause 8.4</u> [*Extension of Time for Completion*]), calculated from the <u>Commencement Date</u>.
- 1.1.3.4 "Tests on Completion" means the tests which are specified in the <u>Contract</u> or agreed by both <u>Parties</u> or instructed as a <u>Variation</u>, and which are carried out under <u>Clause 9</u> [*Tests on Completion*] before the <u>Works</u> or a <u>Section</u> (as the case may be) are taken over by the Employer.
- 1.1.3.5 "**Taking-Over Certificate**" means a certificate issued under <u>Clause 10</u> [*Employer's Taking Over*].
- 1.1.3.6 "**Tests after Completion**" means the tests (if any) which are specified in the <u>Contract</u> and which are carried out under <u>Clause 12</u> [*Tests after Completion*] after the <u>Works</u> or a <u>Section</u> (as the case may be) are taken over by the Employer.
- 1.1.3.7 "Defects Notification Period" means the period for notifying defects in the <u>Works</u> or a <u>Section</u> (as the case may be) under <u>Sub-Clause 11.1</u> [*Completion of Outstanding Work and Remedying Defects*], as stated in the Appendix to <u>Tender</u> (with any extension under <u>Sub-Clause 11.3</u> [*Extension* of Defects Notification Period]), calculated from the date on which the <u>Works</u> or <u>Section</u> is completed as certified under <u>Sub-Clause 10.1</u> [*Taking Over of the <u>Works</u> and <u>Section</u>s].*
- 1.1.3.8 "**Performance Certificate**" means the certificate issued under <u>Sub-Clause 11.9</u> [*Performance Certificate*].
- 1.1.3.9 "**day**" means a calendar day and "**year**" means 365 days.
- 1.1.4 Money and Payments



- 1.1.4.1 "Accepted Contract Amount" means the amount accepted in the <u>Letter</u> of Acceptance for the design, execution and completion of the <u>Works</u> and the remedying of any defects.
- 1.1.4.2 **"Contract Price**" means the price defined in <u>Sub-Clause 14.1</u> [*The Contract Price*], and includes adjustments in accordance with the <u>Contract</u>.
- 1.1.4.3 "**Cost**" means all expenditure reasonably incurred (or to be incurred) by the Contractor, whether on or off the <u>Site</u>, including overhead and similar charges, but does not include profit.
- 1.1.4.4 **"Final Payment Certificate**" means the payment certificate issued under <u>Sub-Clause 14.13</u> [*Issue of Final Payment Certificate*].
- 1.1.4.5 **"Final Statement**" means the <u>Statement</u> defined in <u>Sub-Clause 14.11</u> [*Application for <u>Final Payment Certificate</u>].*
- 1.1.4.6 **"Foreign Currency**" means a currency in which part (or all) of the <u>Contract</u> Price is payable, but not the <u>Local Currency</u>.
- 1.1.4.7 "Interim Payment Certificate" means a payment certificate issued under <u>Clause 14</u> [<u>Contract Price</u> and Payment], other than the <u>Final</u> <u>Payment Certificate</u>.
- 1.1.4.8 **"Local Currency**" means the currency of the <u>Country</u>.
- 1.1.4.9 **"Payment Certificate**" means a payment certificate issued under <u>Clause 14</u> [<u>Contract Price</u> and Payment].
- 1.1.4.10 "**Provisional Sum**" means a sum (if any) which is specified in the <u>Contract</u> as a Provisional Sum, for the execution of any part of the <u>Works</u> or for the supply of <u>Plant</u>, <u>Materials</u> or services under <u>Sub-Clause 13.5</u> [*Provisional Sums*].
- 1.1.4.11 "**Retention Money**" means the accumulated Retention Moneys which the Employer retains under <u>Sub-Clause 14.3</u> [*Application for Interim* <u>Payment Certificates</u>] and pays under <u>Sub-Clause 14.9</u> [*Payment of Retention Money*].
- 1.1.4.12 "**Statement**" means a Statement submitted by the Contractor as part of an application, under <u>Clause 14</u> [<u>Contract Price</u> and Payment], for a payment certificate.

1.1.5 Works and Goods

1.1.5.1 "Contractor's Equipment" means all apparatus, machinery, vehicles and other things required for the execution and completion of the <u>Works</u> and the remedying of any defects. However, <u>Contractor's Equipment</u> excludes <u>Temporary Works</u>, Employers Equipment (if any), <u>Plant</u>, <u>Materials</u> and any



other things intended to form or forming part of the Permanent Works.

- 1.1.5.2 "**Goods**" means <u>Contractor's Equipment</u>, <u>Materials</u>, <u>Plant</u> and <u>Temporary</u> <u>Works</u>, or any of them as appropriate.
- 1.1.5.3 "Materials" means things of all kinds (other than <u>Plant</u>) intended to form or forming part of the <u>Permanent Works</u>, including the supply-only <u>Materials</u> (if any) to be supplied by the Contractor under the <u>Contract</u>.
- 1.1.5.4 "**Permanent Works**" means the <u>Permanent Works</u> to be designed and executed by the Contractor under the <u>Contract</u>.
- 1.1.5.5 "**Plant**" means the apparatus, machinery and vehicles intended to form or forming part of the <u>Permanent Works</u>.
- 1.1.5.6 "**Section**" means a part of the <u>Works</u> specified in the <u>Appendix to Tender</u> as a <u>Section</u> (if any).
- 1.1.5.7 "**Temporary Works**" means all Temporary Works of every kind (other than Contractor's Equipment) required on <u>Site</u> for the execution and completion of the <u>Permanent Works</u> and the remedying of any defects.
- 1.1.5.8 "**Works**" mean the <u>Permanent Works</u> and the <u>Temporary Works</u>, or either of them as appropriate.

1.1.6 Other Definitions

- 1.1.6.1 "**Contractor's Documents**" means the calculations, computer programs and other software, drawings, manuals, models and other documents of a technical nature supplied by the Contractor under the <u>Contract</u>; as described in <u>Sub-Clause 5.2</u> [*Contractor's Documents*].
- 1.1.6.2 "**Country**" means the <u>Country</u> in which the <u>Site</u> (or most of it) is located, where the <u>Permanent Works</u> are to be executed.
- 1.1.6.3 "**Employer's Equipment**" means the apparatus, machinery and vehicles (if any) made available by the Employer for the use of the Contractor in the execution of the <u>Works</u>, as stated in the <u>Employer's Requirements</u>; but does not include <u>Plant</u> which has not been taken over by the Employer.
- 1.1.6.4 "Force Majeure" is defined in <u>Clause 19</u> [Force Majeure].
- 1.1.6.5 "**Laws**" means all national (or state) legislation, statutes, ordinances and other Laws, and regulations and by-Laws of any legally constituted public authority.
- 1.1.6.6 "**Performance Security**" means the security (or securities, if any) under <u>Sub-Clause 4.2</u> [*Performance Security*].
- 1.1.6.7 "**Site**" means the places where the <u>Permanent Works</u> are to be executed and to which <u>Plant</u> and <u>Materials</u> are to be delivered, and any other places



as may be specified in the <u>Contract</u> as forming part of the Site.

- 1.1.6.8 "**Unforeseeable**" means not reasonably foreseeable by an experienced Contractor by the date for submission of the <u>Tender</u>.
- 1.1.6.9 "**Variation**" means any change to the <u>Employer's Requirements</u> or the <u>Works</u>, which is instructed or approved as a Variation under <u>Clause 13</u> [*Variations and Adjustments*].

1.2 Interpretation

In the <u>Contract</u>, except where the context requires otherwise:

- (a) words indicating one gender include all genders;
- (b) words indicating the singular also include the plural and words indicating the plural also include the singular;
- (c) provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing, and
- (d) "written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.

The marginal words and other headings shall not be taken into consideration in the interpretation of these Conditions.

1.3 Communications

Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices and requests, these communications shall be:

- (a) in writing and delivered by hand (against receipt), sent by mail or courier, or transmitted using any of the agreed systems of electronic transmission as stated in the <u>Appendix to Tender</u>; and
- (b) delivered, sent or transmitted to the address for the recipient's communications as stated in the <u>Appendix to Tender</u>. However:



- (i) if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and
- (ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the address from which the request was issued.

Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. When a certificate is issued to a <u>Party</u>, the certifier shall send a copy to the other <u>Party</u>. When a notice is issued to a <u>Party</u>, by the other <u>Party</u> or the Engineer, a copy shall be sent to the Engineer or the other <u>Party</u>, as the case may be.

1.4 Law and Language

The <u>Contract</u> shall be governed by the law of the <u>Country</u> (or other jurisdiction) stated in the <u>Appendix to Tender</u>.

If there are versions of any part of the <u>Contract</u> which are written in more than one language, the version which is in the ruling language stated in the <u>Appendix to</u> <u>Tender</u> shall prevail.

The language for communications shall be that stated in the <u>Appendix to Tender</u>. If no language is stated there, the language for communications shall be the language in which the <u>Contract</u> (or most of it) is written.

1.5 Priority of Documents

The documents forming the <u>Contract</u> are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:

- (a) the Contract Agreement (if any),
- (b) the Letter of Acceptance,
- (c) the Letter of Tender,
- (d) the Particular Conditions,
- (e) these General Conditions,
- (f) the Employer's Requirements,
- (g) the <u>Schedules</u>, and
- (h) the <u>Contractor's Proposal</u> and any other documents forming part of the <u>Contract</u>.



If an ambiguity or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction.

1.6 Contract Agreement

The <u>Parties</u> shall enter into a <u>Contract Agreement</u> within 28 <u>day</u>s after the Contractor receives the <u>Letter of Acceptance</u>, unless they agree otherwise. The <u>Contract Agreement</u> shall be based upon the form annexed to the Particular Conditions. The <u>Cost</u>s of stamp duties and similar charges (if any) imposed by law in connection with entry into the <u>Contract Agreement</u> shall be borne by the Employer.

1.7 Assignment

Neither <u>Party</u> shall assign the whole or any part of the <u>Contract</u> or any benefit or interest in or under the <u>Contract</u>. However, either <u>Party</u>:

- (a) may assign the whole or any part with the prior agreement of the other <u>Party</u>, at the sole discretion of such other <u>Party</u>, and
- (b) may, as security in favour of a bank or financial institution, assign its right to any moneys due, or to become due, under the <u>Contract</u>.

1.8 Care and Supply of Documents

Each of the <u>Contractor's Documents</u> shall be in the custody and care of the Contractor, unless and until taken over by the Employer. Unless otherwise stated in the <u>Contract</u>, the Contractor shall supply to the Engineer six copies of each of the <u>Contractor's Documents</u>.

The Contractor shall keep, on the <u>Site</u>, a copy of the <u>Contract</u>, publications named in the <u>Employer's Requirements</u>, the <u>Contractor's Documents</u>, and <u>Variation</u>s and other communications given under the <u>Contract</u>. The <u>Employer's Personnel</u> shall have the right of access to all these documents at all reasonable times.

If a <u>Party</u> becomes aware of an error or defect of a technical nature in a document which was prepared for use in executing the <u>Works</u>, the <u>Party</u> shall promptly give notice to the other <u>Party</u> of such error or defect.

1.9 Errors in the Employer's Requirements

If the Contractor suffers delay and/or incurs <u>Cost</u> as a result of an error in the <u>Employer's Requirements</u>, and an experienced Contractor exercising due care would not have discovered the error when scrutinising the <u>Employer's Requirements</u> under <u>Sub-Clause 5.1</u> [*General Design Obligations*], the Contractor shall give notice



to the Engineer and shall be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under <u>Sub-Clause 8.4</u> [*Extension of <u>Time for Completion</u>*], and
- (b) payment of any such <u>Cost</u> plus reasonable profit, which shall be included in the <u>Contract Price</u>.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine (i) whether and (if so) to what extent the error could not reasonably have been so discovered, and (ii) the matters described in sub-paragraphs (a) and (b) above related to this extent.

1.10 Employer's Use of <u>Contractor's Documents</u>

As between the <u>Parties</u>, the Contractor shall retain the copyright and other intellectual property rights in the <u>Contractor's Documents</u> and other design documents made by (or on behalf of) the Contractor.

The Contractor shall be deemed (by signing the <u>Contract</u>) to give to the Employer a non-terminable transferable non-exclusive royalty-free licence to copy, use and communicate the <u>Contractor's Documents</u>, including making and using modifications of them. This licence shall:

- (a) apply throughout the actual or intended working life (whichever is longer) of the relevant parts of the <u>Works</u>,
- (b) entitle any person in proper possession of the relevant part of the <u>Works</u> to copy, use and communicate the <u>Contractor's Documents</u> for the purposes of completing, operating, maintaining, altering, adjusting, repairing and demolishing the <u>Works</u>, and
- (c) in the case of <u>Contractor's Documents</u> which are in the form of computer programs and other software, permit their use on any computer on the <u>Site</u> and other places as envisaged by the <u>Contract</u>, including replacements of any computers supplied by the Contractor.

The <u>Contractor's Documents</u> and other design documents made by (or on behalf of) the Contractor shall not, without the Contractor's consent, be used, copied or communicated to a third <u>Party</u> by (or on behalf of) the Employer for purposes other than those permitted under this Sub-Clause.

1.11 Contractor's Use of Employer's Documents



As between the <u>Parties</u>, the Employer shall retain the copyright and other intellectual property rights in the <u>Employer's Requirements</u> and other documents made by (or on behalf of) the Employer. The Contractor may, at his <u>Cost</u>, copy, use, and obtain communication of these documents for the purposes of the <u>Contract</u>. They shall not, without the Employer's consent, be copied, used or communicated to a third <u>Party</u> by the Contractor, except as necessary for the purposes of the <u>Contract</u>.

1.12 Confidential Details

The Contractor shall disclose all such confidential and other information as the Engineer may reasonably require in order to verify the Contractor's compliance with the <u>Contract</u>.

1.13 Compliance with Laws

The Contractor shall, in performing the <u>Contract</u>, comply with applicable <u>Laws</u>. Unless otherwise stated in the Particular Conditions:

- (a) the Employer shall have obtained (or shall obtain) the planning, zoning or similar permission for the <u>Permanent Works</u>, and any other permissions described in the <u>Employer's Requirements</u> as having been (or being) obtained by the Employer; and the Employer shall indemnify and hold the Contractor harmless against and from the consequences of any failure to do so; and
- (b) the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the <u>Laws</u> in relation to the design, execution and completion of the <u>Works</u> and the remedying of any defects; and the Contractor shall indemnify and hold the Employer harmless against and from the consequences of any failure to do so.

1.14 Joint and Several Liability

If the Contractor constitutes (under applicable <u>Laws</u>) a joint venture, consortium or other unincorporated grouping of two or more persons:

- (a) these persons shall be deemed to be jointly and severally liable to the Employer for the performance of the <u>Contract</u>;
- (b) these persons shall notify the Employer of their leader who shall have authority to bind the Contractor and each of these persons; and
- (c) the Contractor shall not alter its composition or legal status without the prior consent of the Employer.



2 The Employer

2.1 Right of Access to the \underline{Site}

The <u>Employer</u> shall give the Contractor right of access to, and possession of, all parts of the <u>Site</u> within the time (or times) stated in the <u>Appendix to Tender</u>. The right and possession may not be exclusive to the Contractor. If, under the <u>Contract</u>, the Employer is required to give (to the Contractor) possession of any foundation, structure, plant or means of access, the Employer shall do so in the time and manner stated in the <u>Employer's Requirements</u>. However, the Employer may withhold any such right or possession until the <u>Performance Security</u> has been received.

If no such time is stated in the <u>Appendix to Tender</u>, the Employer shall give the Contractor right of access to, and possession of, the <u>Site</u> within such times as may be required to enable the Contractor to proceed in accordance with the programme submitted under <u>Sub-Clause 8.3</u> [*Programme*].

If the Contractor suffers delay and/or incurs \underline{Cost} as a result of a failure by the Employer to give any such right or possession within such time, the Contractor shall give notice to the Engineer and shall be entitled subject to $\underline{Sub-Clause \ 20.1}$ [Contractor's Claims] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under <u>Sub-Clause 8.4</u> [*Extension of <u>Time for Completion</u>*], and
- (b) payment of any such \underline{Cost} plus reasonable profit, which shall be included in the $\underline{Contract}$ Price.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine these matters.

However, if and to the extent that the Employer's failure was caused by any error or delay by the Contractor, including an error in, or delay in the submission of, any of the <u>Contractor's Documents</u>, the Contractor shall not be entitled to such extension of time, <u>Cost</u> or profit.

2.2 Permits, Licences or Approvals

The Employer shall (where he is in a position to do so) provide reasonable assistance to the Contractor at the request of the Contractor:



- (a) by obtaining copies of the \underline{Laws} of the $\underline{Country}$ which are relevant to the $\underline{Contract}$ but are not readily available, and
- (b) for the Contractor's applications for any permits, licences or approvals required by the <u>Laws</u> of the <u>Country</u>:
- (i) which the Contractor is required to obtain under <u>Sub-Clause 1.13</u> [Compliance with <u>Laws</u>],
- (ii) for the delivery of Goods, including clearance through customs, and
- (iii) for the export of <u>Contractor's Equipment</u> when it is removed from the <u>Site</u>.

2.3 <u>Employer's Personnel</u>

The Employer shall be responsible for ensuring that the $\underline{Employer's Personnel}$ and the Employer's other contractors on the \underline{Site} :

- (a) co-operate with the Contractor's efforts under <u>Sub-Clause 4.6</u> [Co-operation], and
- (b) take actions similar to those which the Contractor is required to take under sub-paragraphs (a), (b) and (c) of <u>Sub-Clause 4.8</u> [Safety Procedures] and under <u>Sub-Clause 4.18</u> [Protection of the Environment].

2.4 Employer's Financial Arrangements

The Employer shall submit, within 28 <u>days</u> after receiving any request from the Contractor, reasonable evidence that financial arrangements have been made and are being maintained which will enable the Employer to pay the <u>Contract Price</u> (as estimated at that time) in accordance with <u>Clause 14</u> [<u>Contract Price</u> and Payment]. If the Employer intends to make any material change to his financial arrangements, the Employer shall give notice to the Contractor with detailed particulars.

2.5 Employer's Claims

If the Employer considers himself to be entitled to any payment under any Clause of these Conditions or otherwise in connection with the <u>Contract</u>, and/or to any extension of the <u>Defects Notification Period</u>, the Employer or the Engineer shall give notice and particulars to the Contractor. However, notice is not required for payments due under <u>Sub-Clause 4.19</u> [*Electricity, Water and Gas*], under <u>Sub-Clause 4.20</u> [*Employers Equipment and Free-Issue Material*], or for other services requested by the Contractor.

The notice shall be given as soon as practicable after the Employer became aware of the event or circumstances giving rise to the claim. A notice relating to any



extension of the <u>Defects Notification Period</u> shall be given before the expiry of such period.

The particulars shall specify the Clause or other basis of the claim, and shall include substantiation of the amount and/or extension to which the Employer considers himself to be entitled in connection with the <u>Contract</u>. The Engineer shall then proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine (i) the amount (if any) which the Employer is entitled to be paid by the Contractor, and/or (ii) the extension (if any) of the <u>Defects Notification Period</u> in accordance with <u>Sub-Clause 11.3</u> [*Extension of Defects Notification Period*].

This amount may be included as a deduction in the <u>Contract Price</u> and <u>Payment</u> <u>Certificate</u>s. The Employer shall only be entitled to set off against or make any deduction from an amount certified in a <u>Payment Certificate</u>, or to otherwise claim against the Contractor, in accordance with this Sub-Clause.



3 The Engineer

3.1 Engineer's Duties and Authority

The Employer shall appoint the Engineer who shall carry out the duties assigned to him in the <u>Contract</u>. The Engineer's staff shall include suitably qualified engineers and other professionals who are competent to carry out these duties.

The Engineer shall have no authority to amend the Contract.

The Engineer may exercise the authority attributable to the Engineer as specified in or necessarily to be implied from the <u>Contract</u>. If the Engineer is required to obtain the approval of the Employer before exercising a specified authority, the requirements shall be as stated in the Particular Conditions. The Employer undertakes not to impose further constraints on the Engineer's authority, except as agreed with the Contractor.

However, whenever the Engineer exercises a specified authority for which the Employer's approval is required, then (for the purposes of the $\underline{Contract}$) the Employer shall be deemed to have given approval.

Except as otherwise stated in these Conditions:

- (a) whenever carrying out duties or exercising authority, specified in or implied by the <u>Contract</u>, the Engineer shall be deemed to act for the Employer;
- (b) the Engineer has no authority to relieve either \underline{Party} of any duties, obligations or responsibilities under the $\underline{Contract}$; and
- (c) any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by the Engineer (including absence of disapproval) shall not relieve the Contractor from any responsibility he has under the <u>Contract</u>, including responsibility for errors, omissions, discrepancies and non-compliances.

3.2 Delegation by the Engineer

The Engineer may from time to time assign duties and delegate authority to assistants, and may also revoke such assignment or delegation. These assistants may include a resident engineer, and/or independent inspectors appointed to



inspect and/or test items of <u>Plant</u> and/or <u>Materials</u>. The assignment, delegation or revocation shall be in writing and shall not take effect until copies have been received by both <u>Parties</u>. However, unless otherwise agreed by both <u>Parties</u>, the Engineer shall not delegate the authority to determine any matter in accordance with <u>Sub-Clause 3.5</u> [Determinations].

Assistants shall be suitably qualified persons, who are competent to carry out these duties and exercise this authority, and who are fluent in the language for communications defined in <u>Sub-Clause 1.4</u> [Law and Language].

Each assistant, to whom duties have been assigned or authority has been delegated, shall only be authorised to issue instructions to the Contractor to the extent defined by the delegation. Any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by an assistant, in accordance with the delegation, shall have the same effect as though the act had been an act of the Engineer. However:

- (a) any failure to disapprove any work, <u>Plant</u> or <u>Materials</u> shall not constitute approval, and shall therefore not prejudice the right of the Engineer to reject the work, <u>Plant</u> or <u>Materials</u>;
- (b) if the Contractor questions any determination or instruction of an assistant, the Contractor may refer the matter to the Engineer, who shall promptly confirm, reverse or vary the determination or instruction.

3.3 Instructions of the Engineer

The Engineer may issue to the Contractor (at any time) instructions which may be necessary for the execution of the <u>Works</u> and the remedying of any defects, all in accordance with the <u>Contract</u>. The Contractor shall only take instructions from the Engineer, or from an assistant to whom the appropriate authority has been delegated under this Clause. If an instruction constitutes a <u>Variation</u>, <u>Clause 13</u> [<u>Variation</u>s and Adjustments] shall apply.

The Contractor shall comply with the instructions given by the Engineer or delegated assistant, on any matter related to the <u>Contract</u>. These instructions shall be given in writing.

3.4 Replacement of the Engineer

If the Employer intends to replace the Engineer, the Employer shall, not less than 42 <u>days</u> before the intended date of replacement, give notice to the Contractor of the name, address and relevant experience of the intended replacement Engineer. The



Employer shall not replace the Engineer with a person against whom the Contractor raises reasonable objection by notice to the Employer, with supporting particulars.

3.5 Determinations

Whenever these Conditions provide that the Engineer shall proceed in accordance with this <u>Sub-Clause 3.5</u> to agree or determine any matter, the Engineer shall consult with each <u>Party</u> in an endeavour to reach agreement. If agreement is not achieved, the Engineer shall make a fair determination in accordance with the <u>Contract</u>, taking due regard of all relevant circumstances.

The Engineer shall give notice to both $\underline{Parties}$ of each agreement or determination, with supporting particulars. Each \underline{Party} shall give effect to each agreement or determination unless and until revised under $\underline{Clause 20}$ [*Claims, Disputes and Arbitration*].



4 The Contractor

4.1 Contractor's General Obligations

The Contractor shall design, execute and complete the \underline{Works} in accordance with the $\underline{Contract}$, and shall remedy any defects in the \underline{Works} . When completed, the \underline{Works} shall be fit for the purposes for which the \underline{Works} are intended as defined in the $\underline{Contract}$.

The Contractor shall provide the <u>Plant</u> and <u>Contractor's Documents</u> specified in the <u>Contract</u>, and all <u>Contractor's Personnel</u>, <u>Goods</u>, consumables and other things and services, whether of a temporary or permanent nature, required in and for this design, execution, completion and remedying of defects.

The <u>Works</u> shall include any work which is necessary to satisfy the <u>Employer's</u> <u>Requirements</u>, <u>Contractor's Proposal</u> and <u>Schedules</u>, or is implied by the <u>Contract</u>, and all works which (although not mentioned in the <u>Contract</u>) are necessary for stability or for the completion, or safe and proper operation, of the <u>Works</u>.

The Contractor shall be responsible for the adequacy, stability and safety of all $\underline{\text{Site}}$ operations, of all methods of construction and of all the $\underline{\text{Works}}$.

The Contractor shall, whenever required by the Engineer, submit details of the arrangements and methods which the Contractor proposes to adopt for the execution of the \underline{Works} . No significant alteration to these arrangements and methods shall be made without this having previously been notified to the Engineer.

4.2 <u>Performance Security</u>

The Contractor shall obtain (at his cost) a <u>Performance Security</u> for proper performance, in the amount and currencies stated in the <u>Appendix to Tender</u>. If an amount is not stated in the <u>Appendix to Tender</u>, this Sub-Clause shall not apply.

The Contractor shall deliver the <u>Performance Security</u> to the Employer within 28 <u>days</u> after receiving the <u>Letter of Acceptance</u>, and shall send a copy to the Engineer. The <u>Performance Security</u> shall be issued by an entity and from within a country (or other jurisdiction) approved by the Employer, and shall be in the form annexed to the Particular Conditions or in another form approved by the Employer.

The Contractor shall ensure that the $\underline{Performance Security}$ is valid and enforceable until the Contractor has executed and completed the \underline{Works} and remedied any



defects. If the terms of the <u>Performance Security</u> specify its expiry date, and the Contractor has not become entitled to receive the <u>Performance Certificate</u> by the date 28 <u>days</u> prior to the expiry date, the Contractor shall extend the validity of the <u>Performance Security</u> until the <u>Works</u> have been completed and any defects have been remedied.

The Employer shall not make a claim under the <u>Performance Security</u>, except for amounts to which the Employer is entitled under the <u>Contract</u> in the event of:

- (a) failure by the Contractor to extend the validity of the <u>Performance Security</u> as described in the preceding paragraph, in which event the Employer may claim the full amount of the <u>Performance Security</u>,
- (b) failure by the Contractor to pay the Employer an amount due, as either agreed by the Contractor or determined under <u>Sub-Clause 2.5</u> [Employer's Claims] or <u>Clause 20</u> [Claims, Disputes and Arbitration], within 42 <u>days</u> after this agreement or determination,
- (c) failure by the Contractor to remedy a default within 42 days after receiving the Employer's notice requiring the default to be remedied, or
- (d) circumstances which entitle the Employer to termination under <u>Sub-Clause 15.2</u> [*Termination by Employer*], irrespective of whether notice of termination has been given.

The Employer shall indemnify and hold the Contractor harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from a claim under the <u>Performance Security</u> to the extent to which the Employer was not entitled to make the claim.

The Employer shall return the <u>Performance Security</u> to the Contractor within 21 <u>days</u> after receiving a copy of the <u>Performance Certificate</u>.

4.3 <u>Contractor's Representative</u>

The Contractor shall appoint the <u>Contractor's Representative</u> and shall give him all authority necessary to act on the Contractor's behalf under the <u>Contract</u>.

Unless the Contractor's Representative is named in the <u>Contract</u>, the Contractor shall, prior to the <u>Commencement Date</u>, submit to the Engineer for consent the name and particulars of the person the Contractor proposes to appoint as <u>Contractor's</u> <u>Representative</u>. If consent is withheld or subsequently revoked, or if the appointed person fails to act as <u>Contractor's Representative</u>, the Contractor shall similarly submit the name and particulars of another suitable person for such appointment.



The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the <u>Contractor's Representative</u> or appoint a replacement.

The whole time of the <u>Contractor's Representative</u> shall be given to directing the Contractor's performance of the <u>Contract</u>. If the <u>Contractor's Representative</u> is to be temporarily absent from the <u>Site</u> during the execution of the <u>Works</u>, a suitable replacement person shall be appointed, subject to the Engineer's prior consent, and the Engineer shall be notified accordingly.

The <u>Contractor's Representative</u> shall, on behalf of the Contractor, receive instructions under <u>Sub-Clause 3.3</u> [*Instructions of the Engineer*].

The <u>Contractor's Representative</u> may delegate any powers, functions and authority to any competent person, and may at any time revoke the delegation. Any delegation or revocation shall not take effect until the Engineer has received prior notice signed by the <u>Contractor's Representative</u>, naming the person and specifying the powers, functions and authority being delegated or revoked.

The <u>Contractor's Representative</u> and all these persons shall be fluent in the language for communications defined in <u>Sub-Clause 1.4</u> [Law and Language].

4.4 <u>Subcontractor</u>s

The Contractor shall not subcontract the whole of the <u>Works</u>.

The Contractor shall be responsible for the acts or defaults of any <u>Subcontractor</u>, his agents or employees, as if they were the acts or defaults of the Contractor. Unless otherwise stated in the Particular Conditions:

- (a) the Contractor shall not be required to obtain consent to suppliers of <u>Materials</u>, or to a subcontract for which the <u>Subcontractor</u> is named in the <u>Contract</u>;
- (b) the prior consent of the Engineer shall be obtained to other proposed <u>Subcontractor</u>s; and
- (c) the Contractor shall give the Engineer not less than 28 $\underline{days'}$ notice of the intended date of the commencement of each $\underline{Subcontractor's}$ work, and of the commencement of such work on the \underline{Site} .

4.5 Nominated Subcontractors

In this Sub-Clause, "nominated <u>Subcontractor</u>" means a <u>Subcontractor</u> whom the Engineer, under <u>Clause 13</u> [*Variations and Adjustments*], instructs the Contractor to employ as a <u>Subcontractor</u>. The Contractor shall not be under any obligation to



employ a nominated <u>Subcontractor</u> against whom the Contractor raises reasonable objection by notice to the Engineer as soon as practicable, with supporting particulars.

4.6 Co-operation

The Contractor shall, as specified in the <u>Contract</u> or as instructed by the Engineer, allow appropriate opportunities for carrying out work to:

- (a) the Employer's Personnel,
- (b) any other contractors employed by the Employer, and
- (c) the personnel of any legally constituted public authorities,

who may be employed in the execution on or near the \underline{Site} of any work not included in the $\underline{Contract}$.

Any such instruction shall constitute a <u>Variation</u> if and to the extent that it causes the Contractor to incur <u>Unforeseeable</u> <u>Cost</u>. Services for these personnel and other contractors may include the use of <u>Contractor's Equipment</u>, <u>Temporary Works</u> or access arrangements which are the responsibility of the Contractor.

The Contractor shall be responsible for his construction activities on the \underline{Site} , and shall co-ordinate his own activities with those of other contractors to the extent (if any) specified in the <u>Employer's Requirements</u>.

If, under the <u>Contract</u>, the Employer is required to give to the Contractor possession of any foundation, structure, plant or means of access in accordance with <u>Contractor's Documents</u>, the Contractor shall submit such documents to the Engineer in the time and manner stated in the <u>Employer's Requirements</u>.

4.7 Setting Out

The Contractor shall set out the <u>Works</u> in relation to original points, lines and levels of reference specified in the <u>Contract</u> or notified by the Engineer. The Contractor shall be responsible for the correct positioning of all parts of the <u>Works</u>, and shall rectify any error in the positions, levels, dimensions or alignment of the <u>Works</u>.

The Employer shall be responsible for any errors in these specified or notified items of reference, but the Contractor shall use reasonable efforts to verify their accuracy before they are used.



If the Contractor suffers delay and/or incurs \underline{Cost} from executing work which was necessitated by an error in these items of reference, and an experienced contractor could not reasonably have discovered such error and avoided this delay and/or \underline{Cost} , the Contractor shall give notice to the Engineer and shall be entitled subject to $\underline{Sub-Clause\ 20.1\ [Contractor's\ Claims]\ to:}$

- (a) an extension of time for any such delay, if completion is or will be delayed, under <u>Sub-Clause 8.4</u> [*Extension of <u>Time for Completion</u>*], and
- (b) payment of any such \underline{Cost} plus reasonable profit, which shall be included in the $\underline{Contract}$ Price.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine (i) whether and (if so) to what extent the error could not reasonably have been discovered, and (ii) the matters described in sub-paragraphs (a) and (b) above related to this extent.

4.8 Safety Procedures

The Contractor shall:

- (a) comply with all applicable safety regulations,
- (b) take care for the safety of all persons entitled to be on the $\underline{\rm Site},$
- (c) use reasonable efforts to keep the \underline{Site} and \underline{Works} clear of unnecessary obstruction so as to avoid danger to these persons,
- (d) provide fencing, lighting, guarding and watching of the <u>Works</u> until completion and taking over under <u>Clause 10</u> [*Employer's Taking Over*], and
- (e) provide any <u>Temporary Works</u> (including roadways, footways, guards and fences) which may be necessary, because of the execution of the <u>Works</u>, for the use and protection of the public and of owners and occupiers of adjacent land.

4.9 Quality Assurance

The Contractor shall institute a quality assurance system to demonstrate compliance with the requirements of the $\underline{Contract}$. The system shall be in accordance with the details stated in the $\underline{Contract}$. The Engineer shall be entitled to audit any aspect of the system.

Details of all procedures and compliance documents shall be submitted to the Engineer for information before each design and execution stage is commenced.



When any document of a technical nature is issued to the Engineer, evidence of the prior approval by the Contractor himself shall be apparent on the document itself.

Compliance with the quality assurance system shall not relieve the Contractor of any of his duties, obligations or responsibilities under the $\underline{Contract}$.

4.10 <u>Site</u> Data

The Employer shall have made available to the Contractor for his information, prior to the Base Date, all relevant data in the Employer's possession on sub-surface and hydrological conditions at the <u>Site</u>, including environmental aspects. The Employer shall similarly make available to the Contractor all such data which come into the Employer's possession after the <u>Base Date</u>. The Contractor shall be responsible for interpreting all such data.

To the extent which was practicable (taking account of cost and time), the Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the <u>Tender</u> or <u>Works</u>. To the same extent, the Contractor shall be deemed to have inspected and examined the <u>Site</u>, its surroundings, the above data and other available information, and to have been satisfied before submitting the <u>Tender</u> as to all relevant matters, including (without limitation):

- (a) the form and nature of the <u>Site</u>, including sub-surface conditions,
- (b) the hydrological and climatic conditions,
- (c) the extent and nature of the work and \underline{Goods} necessary for the execution and completion of the \underline{Works} and the remedying of any defects,
- (d) the Laws, procedures and labour practices of the Country, and
- (e) the Contractor's requirements for access, accommodation, facilities, personnel, power, transport, water and other services.

4.11 Sufficiency of the <u>Accepted Contract Amount</u>

The Contractor shall be deemed to:

- (a) have satisfied himself as to the correctness and sufficiency of the <u>Accepted</u> <u>Contract Amount</u>, and
- (b) have based the <u>Accepted Contract Amount</u> on the data, interpretations, necessary information, inspections, examinations and satisfaction as to all relevant



matters referred to in <u>Sub-Clause 4.10</u> [<u>Site</u> Data] and any further data relevant to the Contractor's design.

Unless otherwise stated in the <u>Contract</u>, the <u>Accepted Contract Amount</u> covers all the Contractor's obligations under the <u>Contract</u> (including those under <u>Provisional Sum</u>s, if any) and all things necessary for the proper design, execution and completion of the <u>Works</u> and the remedying of any defects.

4.12 <u>Unforeseeable</u> Physical Conditions

In this Sub-Clause, "physical conditions" means natural physical conditions and man-made and other physical obstructions and pollutants, which the Contractor encounters at the <u>Site</u> when executing the <u>Works</u>, including sub-surface and hydrological conditions but excluding climatic conditions.

If the Contractor encounters adverse physical conditions which he considers to have been <u>Unforeseeable</u>, the Contractor shall give notice to the Engineer as soon as practicable.

This notice shall describe the physical conditions, so that they can be inspected by the Engineer, and shall set out the reasons why the Contractor considers them to be <u>Unforeseeable</u>. The Contractor shall continue executing the <u>Works</u>, using such proper and reasonable measures as are appropriate for the physical conditions, and shall comply with any instructions which the Engineer may give. If an instruction constitutes a <u>Variation</u>, <u>Clause 13</u> [<u>Variation</u>s and Adjustments] shall apply.

If and to the extent that the Contractor encounters physical conditions which are $\underline{\text{Unforeseeable}}$, gives such a notice, and suffers delay and/or incurs $\underline{\text{Cost}}$ due to these conditions, the Contractor shall be entitled subject to $\underline{\text{Sub-Clause 20.1}}$ [Contractor's Claims] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under <u>Sub-Clause 8.4</u> [*Extension of <u>Time for Completion</u>*], and
- (b) payment of any such <u>Cost</u>, which shall be included in the <u>Contract Price</u>.

After receiving such notice and inspecting and/or investigating these physical conditions, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine (i) whether and (if so) to what extent these physical conditions were <u>Unforeseeable</u>, and (ii) the matters described in sub-paragraphs (a) and (b) above related to this extent.

However, before additional \underline{Cost} is finally agreed or determined under sub-paragraph (ii), the Engineer may also review whether other physical conditions



FIDIC Conditions of Contract for Plant And Design-Build Contract First Edition, 1999

in similar parts of the <u>Works</u> (if any) were more favourable than could reasonably have been foreseen when the Contractor submitted the <u>Tender</u>. If and to the extent that these more favourable conditions were encountered, the Engineer may proceed in accordance with <u>Sub-Clause 3.5</u> [Determinations] to agree or determine the reductions in <u>Cost</u> which were due to these conditions, which may be included (as deductions) in the <u>Contract Price</u> and <u>Payment Certificate</u>s. However, the net effect of all adjustments under sub-paragraph (b) and all these reductions, for all the physical conditions encountered in similar parts of the <u>Works</u>, shall not result in a net reduction in the <u>Contract Price</u>.

The Engineer may take account of any evidence of the physical conditions foreseen by the Contractor when submitting the $\underline{\text{Tender}}$, which may be made available by the Contractor, but shall not be bound by any such evidence.

4.13 Rights of Way and Facilities

The Contractor shall bear all costs and charges for special and/or temporary rights-of-way which he may require, including those for access to the <u>Site</u>. The Contractor shall also obtain, at his risk and cost, any additional facilities outside the <u>Site</u> which he may require for the purposes of the <u>Works</u>.

4.14 Avoidance of Interference

The Contractor shall not interfere unnecessarily or improperly with:

- (a) the convenience of the public, or
- (b) the access to and use and occupation of all roads and footpaths, irrespective of whether they are public or in the possession of the Employer or of others.

The Contractor shall indemnify and hold the Employer harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from any such unnecessary or improper interference.

4.15 Access Route

The Contractor shall be deemed to have been satisfied as to the suitability and availability of access routes to the <u>Site</u>. The Contractor shall use reasonable efforts to prevent any road or bridge from being damaged by the Contractor's traffic or by the <u>Contractor's Personnel</u>. These efforts shall include the proper use of appropriate vehicles and routes.

Except as otherwise stated in these Conditions:



- (a) the Contractor shall (as between the <u>Parties</u>) be responsible for any maintenance which may be required for his use of access routes;
- (b) the Contractor shall provide all necessary signs or directions along access routes, and shall obtain any permission which may be required from the relevant authorities for his use of routes, signs and directions;
- (c) the Employer shall not be responsible for any claims which may arise from the use or otherwise of any access route,
- (d) the Employer does not guarantee the suitability or availability of particular access routes, and
- (e) <u>Cost</u>s due to non-suitability or non-availability, for the use required by the Contractor, of access routes shall be borne by the Contractor.

4.16 Transport of Goods

Unless otherwise stated in the Particular Conditions:

- (a) the Contractor shall give the Engineer not less than $21 \frac{\text{day}}{\text{s'}}$ notice of the date on which any <u>Plant</u> or a major item of other <u>Goods</u> will be delivered to the <u>Site</u>;
- (b) the Contractor shall be responsible for packing, loading, transporting, receiving, unloading, storing and protecting all <u>Goods</u> and other things required for the <u>Works</u>; and
- (c) the Contractor shall indemnify and hold the Employer harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from the transport of <u>Goods</u>, and shall negotiate and pay all claims arising from their transport.

4.17 Contractor's Equipment

The Contractor shall be responsible for all <u>Contractor's Equipment</u>. When brought on to the <u>Site</u>, <u>Contractor's Equipment</u> shall be deemed to be exclusively intended for the execution of the <u>Works</u>. The Contractor shall not remove from the <u>Site</u> any major items of <u>Contractor's Equipment</u> without the consent of the Engineer. However, consent shall not be required for vehicles transporting <u>Goods</u> or Contractor's Personnel off <u>Site</u>.

4.18 Protection of the Environment



The Contractor shall take all reasonable steps to protect the environment (both on and off the \underline{Site}) and to limit damage and nuisance to people and property resulting from pollution, noise and other results of his operations.

The Contractor shall ensure that emissions, surface discharges and effluent from the Contractor's activities shall not exceed the values indicated in the $\underline{\text{Employer's}}$ Requirements, and shall not exceed the values prescribed by applicable Laws.

4.19 Electricity, Water and Gas

The Contractor shall, except as stated below, be responsible for the provision of all power, water and other services he may require.

The Contractor shall be entitled to use for the purposes of the <u>Works</u> such supplies of electricity, water, gas and other services as may be available on the <u>Site</u> and of which details and prices are given in the <u>Employer's Requirements</u>. The Contractor shall, at his risk and cost, provide any apparatus necessary for his use of these services and for measuring the quantities consumed.

The quantities consumed and the amounts due (at these prices) for such services shall be agreed or determined by the Engineer in accordance with <u>Sub-Clause 2.5</u> [*Employer's Claims*] and <u>Sub-Clause 3.5</u> [*Determinations*]. The Contractor shall pay these amounts to the Employer.

4.20 Employers Equipment and Free-Issue Material

The Employer shall make the <u>Employers Equipment</u> (if any) available for the use of the Contractor in the execution of the <u>Works</u> in accordance with the details, arrangements and prices stated in the <u>Employer's Requirements</u>. Unless otherwise stated in the <u>Employer's Requirements</u>:

- (a) the Employer shall be responsible for the Employers Equipment, except that
- (b) the Contractor shall be responsible for each item of <u>Employers Equipment</u> whilst any of the <u>Contractor's Personnel</u> is operating it, driving it, directing it or in possession or control of it.

The appropriate quantities and the amounts due (at such stated prices) for the use of Employer's Equipment shall be agreed or determined by the Engineer in accordance with <u>Sub-Clause 2.5</u> [*Employer's Claims*] and <u>Sub-Clause 3.5</u> [*Determinations*]. The Contractor shall pay these amounts to the Employer.

The Employer shall supply, free of charge, the "free-issue materials" (if any) in accordance with the details stated in the <u>Employer's Requirements</u>. The Employer shall,



at his risk and cost, provide these materials at the time and place specified in the <u>Contract</u>. The Contractor shall then visually inspect them, and shall promptly give notice to the Engineer of any shortage, defect or default in these materials. Unless otherwise agreed by both <u>Parties</u>, the Employer shall immediately rectify the notified shortage, defect or default.

After this visual inspection, the free-issue materials shall come under the care, custody and control of the Contractor. The Contractor's obligations of inspection, care, custody and control shall not relieve the Employer of liability for any shortage, defect or default not apparent from a visual inspection.

4.21 Progress Reports

Unless otherwise stated in the Particular Conditions, monthly progress reports shall be prepared by the Contractor and submitted to the Engineer in six copies. The first report shall cover the period up to the end of the first calendar month following the <u>Commencement Date</u>. Reports shall be submitted monthly thereafter, each within 7 <u>days</u> after the last <u>day</u> of the period to which it relates.

Reporting shall continue until the Contractor has completed all work which is known to be outstanding at the completion date stated in the $\underline{\text{Taking-Over Certificate}}$ for the $\underline{\text{Works}}$.

Each report shall include:

- (a) charts and detailed descriptions of progress, including each stage of design, Contractor's Documents, procurement, manufacture, delivery to <u>Site</u>, construction, erection, testing, commissioning and trial operation;
- (b) photographs showing the status of manufacture and of progress on the \underline{Site} ;
- (c) for the manufacture of each main item of <u>Plant</u> and <u>Materials</u>, the name of the manufacturer, manufacture location, percentage progress, and the actual or expected dates of:
- (i) commencement of manufacture,
- (ii) Contractor's inspections,

(iii) tests, and

(iv) shipment and arrival at the Site;



- (d) the details described in <u>Sub-Clause 6.10</u> [Records of <u>Contractor's Personnel</u> and Equipment];
- (e) copies of quality assurance documents, test results and certificates of <u>Materials</u>;
- (f) list of <u>Variation</u>s, notices given under <u>Sub-Clause 2.5</u> [*Employer's Claims*] and notices given under <u>Sub-Clause 20.1</u> [*Contractor's Claims*];
- (g) safety statistics, including details of any hazardous incidents and activities relating to environmental aspects and public relations; and
- (h) comparisons of actual and planned progress, with details of any events or circumstances which may jeopardise the completion in accordance with the <u>Contract</u>, and the measures being (or to be) adopted to overcome delays.

4.22 Security of the <u>Site</u>

Unless otherwise stated in the Particular Conditions:

- (a) the Contractor shall be responsible for keeping unauthorised persons off the $\underline{\rm Site},$ and
- (b) authorised persons shall be limited to the <u>Contractor's Personnel</u> and the <u>Employer's Personnel</u>; and to any other personnel notified to the Contractor, by the Employer or the Engineer, as authorised personnel of the Employer's other contractors on the <u>Site</u>.

4.23 Contractor's Operations on \underline{Site}

The Contractor shall confine his operations to the <u>Site</u>, and to any additional areas which may be obtained by the Contractor and agreed by the Engineer as working areas. The Contractor shall take all necessary precautions to keep <u>Contractor's</u> <u>Equipment</u> and <u>Contractor's Personnel</u> within the <u>Site</u> and these additional areas, and to keep them off adjacent land.

During the execution of the <u>Works</u>, the Contractor shall keep the <u>Site</u> free from all unnecessary obstruction, and shall store or dispose of any <u>Contractor's Equipment</u> or surplus materials. The Contractor shall clear away and remove from the <u>Site</u> any wreckage, rubbish and <u>Temporary Works</u> which are no longer required.

Upon the issue of a <u>Taking-Over Certificate</u>, the Contractor shall clear away and remove, from that part of the <u>Site</u> and <u>Works</u> to which the <u>Taking-Over Certificate</u> refers, all <u>Contractor's Equipment</u>, surplus material, wreckage, rubbish and Temporary <u>Works</u>. The Contractor shall leave that part of the <u>Site</u> and the <u>Works</u> in a



clean and safe condition. However, the Contractor may retain on <u>Site</u>, during the Defects Notification Period, such <u>Goods</u> as are required for the Contractor to fulfil obligations under the <u>Contract</u>.



4.24 Fossils

All fossils, coins, articles of value or antiquity, and structures and other remains or items of geological or archaeological interest found on the <u>Site</u> shall be placed under the care and authority of the Employer. The Contractor shall take reasonable precautions to prevent <u>Contractor's Personnel</u> or other persons from removing or damaging any of these findings.

The Contractor shall, upon discovery of any such finding, promptly give notice to the Engineer, who shall issue instructions for dealing with it. If the Contractor suffers delay and/or incurs \underline{Cost} from complying with the instructions, the Contractor shall give a further notice to the Engineer and shall be entitled subject to $\underline{Sub-Clause 20.1}$ [Contractor's Claims] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under <u>Sub-Clause 8.4</u> [*Extension of <u>Time for Completion</u>*], and
- (b) payment of any such <u>Cost</u>, which shall be included in the <u>Contract Price</u>.

After receiving this further notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [Determinations] to agree or determine these matters.



5 Design

5.1 General Design Obligations

The Contractor shall carry out, and be responsible for, the design of the <u>Works</u>. Design shall be prepared by qualified designers who are engineers or other professionals who comply with the criteria (if any) stated in the <u>Employer's</u> <u>Requirements</u>. Unless otherwise stated in the <u>Contract</u>, the Contractor shall submit to the Engineer for consent the name and particulars of each proposed designer and design <u>Subcontractor</u>.

The Contractor warrants that he, his designers and design <u>Subcontractors</u> have the experience and capability necessary for the design. The Contractor undertakes that the designers shall be available to attend discussions with the Engineer at all reasonable times, until the expiry date of the relevant <u>Defects Notification Period</u>.

Upon receiving notice under <u>Sub-Clause 8.1</u> [*Commencement of <u>Works</u>*], the Contractor shall scrutinise the <u>Employer's Requirements</u> (including design criteria and calculations, if any) and the items of reference mentioned in <u>Sub-Clause 4.7</u> [*Setting Out*]. Within the period stated in the <u>Appendix to Tender</u>, calculated from the <u>Commencement Date</u>, the Contractor shall give notice to the Engineer of any error, fault or other defect found in the <u>Employer's Requirements</u> or these items of reference.

After receiving this notice, the Engineer shall determine whether <u>Clause 13</u> [<u>Variation</u>s and Adjustments] shall be applied, and shall give notice to the Contractor accordingly. If and to the extent that (taking account of cost and time) an experienced contractor exercising due care would have discovered the error, fault or other defect when examining the <u>Site</u> and the <u>Employer's Requirements</u> before submitting the <u>Tender</u>, the <u>Time for Completion</u> shall not be extended and the <u>Contract</u> <u>Price</u> shall not be adjusted.

5.2 Contractor's Documents

The Contractor's Documents shall comprise the technical documents specified in the Employer's Requirements, documents required to satisfy all regulatory approvals, and the documents described in <u>Sub-Clause 5.6</u> [As-Built Documents] and <u>Sub-Clause 5.7</u> [Operation and Maintenance Manuals]. Unless otherwise stated in the Employer's Requirements, the <u>Contractor's Documents</u> shall be written in the language for communications defined in <u>Sub-Clause 1.4</u> [Law and Language].



The Contractor shall prepare all <u>Contractor's Documents</u>, and shall also prepare any other documents necessary to instruct the <u>Contractor's Personnel</u>. The <u>Employer's</u> <u>Personnel</u> shall have the right to inspect the preparation of all these documents, wherever they are being prepared.

If the <u>Employer's Requirements</u> describe the <u>Contractor's Documents</u> which are to be submitted to the Engineer for review and/or for approval, they shall be submitted accordingly, together with a notice as described below. In the following provisions of this Sub-Clause, (i) "review period" means the period required by the Engineer for review and (if so specified) for approval, and (ii) "<u>Contractor's Documents</u>" exclude any documents which are not specified as being required to be submitted for review and/or for approval.

Unless otherwise stated in the <u>Employer's Requirements</u>, each review period shall not exceed 21 <u>days</u>, calculated from the date on which the Engineer receives a <u>Contractor's Document</u> and the Contractor's notice. This notice shall state that the <u>Contractor's Document</u> is considered ready, both for review (and approval, if so specified) in accordance with this Sub-Clause and for use. The notice shall also state that the <u>Contractor's Document</u> complies with the <u>Contract</u>, or the extent to which it does not comply.

The Engineer may, within the review period, give notice to the Contractor that a <u>Contractor's Document</u> fails (to the extent stated) to comply with the <u>Contract</u>. If a <u>Contractor's Document</u> so fails to comply, it shall be rectified, resubmitted and reviewed (and, if specified, approved) in accordance with this Sub-Clause, at the Contractor's cost.

For each part of the \underline{Works} , and except to the extent that the prior approval or consent of the Engineer shall have been obtained:

- (a) in the case of a <u>Contractor's Document</u> which has (as specified) been submitted for the Engineer's approval:
- (i) the Engineer shall give notice to the Contractor that the <u>Contractor's Document</u> is approved, with or without comments, or that it fails (to the extent stated) to comply with the <u>Contract</u>;
- (ii) execution of such part of the <u>Works</u> shall not commence until the Engineer has approved the <u>Contractor's Document</u>; and
- (iii) the Engineer shall be deemed to have approved the <u>Contractor's Document</u> upon the expiry of the review periods for all the <u>Contractor's Documents</u> which are relevant to the design and execution of such part, unless the Engineer has previously notified otherwise in accordance with sub-paragraph (i);



- (b) execution of such part of the <u>Works</u> shall not commence prior to the expiry of the review periods for all the <u>Contractor's Documents</u> which are relevant to its design and execution;
- (c) execution of such part of the <u>Works</u> shall be in accordance with these reviewed (and, if specified, approved) <u>Contractor's Documents</u>; and
- (d) if the Contractor wishes to modify any design or document which has previously been submitted for review (and, if specified, approval), the Contractor shall immediately give notice to the Engineer. Thereafter, the Contractor shall submit revised documents to the Engineer in accordance with the above procedure.

If the Engineer instructs that further <u>Contractor's Documents</u> are required, the Contractor shall prepare them promptly.

Any such approval or consent, or any review (under this Sub-Clause or otherwise), shall not relieve the Contractor from any obligation or responsibility.

5.3 Contractor's Undertaking

The Contractor undertakes that the design, the $\underline{Contractor's Documents}$, the execution and the completed \underline{Works} will be in accordance with:

- (a) the Laws in the Country, and
- (b) the documents forming the <u>Contract</u>, as altered or modified by <u>Variation</u>s.

5.4 Technical Standards and Regulations

The design, the <u>Contractor's Documents</u>, the execution and the completed <u>Works</u> shall comply with the <u>Country</u>'s technical standards, building, construction and environmental <u>Laws</u>, <u>Laws</u> applicable to the product being produced from the <u>Works</u>, and other standards specified in the <u>Employer's Requirements</u>, applicable to the <u>Works</u>, or defined by the applicable <u>Laws</u>.

All these <u>Laws</u> shall, in respect of the <u>Works</u> and each <u>Section</u>, be those prevailing when the <u>Works</u> or <u>Section</u> are taken over by the Employer under <u>Clause 10</u> [*Employer's Taking Over*]. References in the <u>Contract</u> to published standards shall be understood to be references to the edition applicable on the <u>Base Date</u>, unless stated otherwise.



If changed or new applicable standards come into force in the $\underline{Country}$ after the <u>Base</u> <u>Date</u>, the Contractor shall give notice to the Engineer and (if appropriate) submit proposals for compliance. In the event that:

(a) the Engineer determines that compliance is required, and

(b) the proposals for compliance constitute a variation,

then the Engineer shall initiate a <u>Variation</u> in accordance with <u>Clause 13</u> [<u>Variation</u>s and Adjustments].

5.5 Training

The Contractor shall carry out the training of <u>Employer's Personnel</u> in the operation and maintenance of the <u>Works</u> to the extent specified in the <u>Employer's Requirements</u>. If the <u>Contract</u> specifies training which is to be carried out before taking-over, the <u>Works</u> shall not be considered to be completed for the purposes of taking-over under <u>Sub-Clause 10.1</u> [*Taking Over of the <u>Works</u> and <u>Section</u>s*] until this training has been completed.

5.6 As-Built Documents

The Contractor shall prepare, and keep up-to-date, a complete set of "as-built" records of the execution of the \underline{Works} , showing the exact as-built locations, sizes and details of the work as executed. These records shall be kept on the \underline{Site} and shall be used exclusively for the purposes of this Sub-Clause. Two copies shall be supplied to the Engineer prior to the commencement of the Tests on Completion.

In addition, the Contractor shall supply to the Engineer as-built drawings of the <u>Works</u>, showing all <u>Works</u> as executed, and submit them to the Engineer for review under <u>Sub-Clause 5.2</u> [*Contractor's Documents*]. The Contractor shall obtain the consent of the Engineer as to their size, the referencing system, and other relevant details.

Prior to the issue of any <u>Taking-Over Certificate</u>, the Contractor shall supply to the Engineer the specified numbers and types of copies of the relevant as-built drawings, in accordance with the <u>Employer's Requirements</u>. The <u>Works</u> shall not be considered to be completed for the purposes of taking-over under <u>Sub-Clause 10.1</u> [*Taking Over of the <u>Works</u> and <u>Sections</u>] until the Engineer has received these documents.*

5.7 Operation and Maintenance Manuals



Prior to commencement of the <u>Tests on Completion</u>, the Contractor shall supply to the Engineer provisional operation and maintenance manuals in sufficient detail for the Employer to operate, maintain, dismantle, reassemble, adjust and repair the <u>Plant</u>.

The <u>Works</u> shall not be considered to be completed for the purposes of taking-over under <u>Sub-Clause 10.1</u> [*Taking Over of the <u>Works</u> and <u>Sections</u>*] until the Engineer has received final operation and maintenance manuals in such detail, and any other manuals specified in the <u>Employer's Requirements</u> for these purposes.

5.8 Design Error

If errors, omissions, ambiguities, inconsistencies, inadequacies or other defects are found in the <u>Contractor's Documents</u>, they and the <u>Works</u> shall be corrected at the Contractor's cost, notwithstanding any consent or approval under this Clause.



6 Staff and Labour

6.1 Engagement of Staff and Labour

Except as otherwise stated in the <u>Employer's Requirements</u>, the Contractor shall make arrangements for the engagement of all staff and labour, local or otherwise, and for their payment, housing, feeding and transport.

6.2 Rates of Wages and Conditions of Labour

The Contractor shall pay rates of wages, and observe conditions of labour, which are not lower than those established for the trade or industry where the work is carried out. If no established rates or conditions are applicable, the Contractor shall pay rates of wages and observe conditions which are not lower than the general level of wages and conditions observed locally by employers whose trade or industry is similar to that of the Contractor.

6.3 Persons in the Service of Employer

The Contractor shall not recruit, or attempt to recruit, staff and labour from amongst the Employer's Personnel.

6.4 Labour Laws

The Contractor shall comply with all the relevant labour <u>Laws</u> applicable to the Contractor's Personnel, including <u>Laws</u> relating to their employment, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights.

The Contractor shall require his employees to obey all applicable <u>Laws</u>, including those concerning safety at work.

6.5 Working Hours

No work shall be carried out on the \underline{Site} on locally recognised \underline{day} s of rest, or outside the normal working hours stated in the <u>Appendix to Tender</u>, unless:

- (a) otherwise stated in the Contract,
- (b) the Engineer gives consent, or



(c) the work is unavoidable, or necessary for the protection of life or property or for the safety of the \underline{Works} , in which case the Contractor shall immediately advise the Engineer.

6.6 Facilities for Staff and Labour

Except as otherwise stated in the <u>Employer's Requirements</u>, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the <u>Contractor's Personnel</u>. The Contractor shall also provide facilities for the <u>Employer's Personnel</u> as stated in the <u>Employer's Requirements</u>.

The Contractor shall not permit any of the <u>Contractor's Personnel</u> to maintain any temporary or permanent living quarters within the structures forming part of the Permanent <u>Works</u>.

6.7 Health and Safety

The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the <u>Contractor's Personnel</u>. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the <u>Site</u> and at any accommodation for Contractor's and <u>Employer's Personnel</u>, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.

The Contractor shall appoint an accident prevention officer at the <u>Site</u>, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility, and shall have the authority to issue instructions and take protective measures to prevent accidents. Throughout the execution of the <u>Works</u>, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority.

The Contractor shall send, to the Engineer, details of any accident as soon as practicable after its occurrence. The Contractor shall maintain records and make reports concerning health, safety and welfare of persons, and damage to property, as the Engineer may reasonably require.

6.8 Contractor's Superintendence

Throughout the design and execution of the <u>Works</u>, and as long thereafter as is necessary to fulfil the Contractor's obligations, the Contractor shall provide all necessary superintendence to plan, arrange, direct, manage, inspect and test the work.



Superintendence shall be given by a sufficient number of persons having adequate knowledge of the language for communications (defined in <u>Sub-Clause 1.4</u> [*Law and Language*]) and of the operations to be carried out (including the methods and techniques required, the hazards likely to be encountered and methods of preventing accidents), for the satisfactory and safe execution of the <u>Works</u>.

6.9 Contractor's Personnel

The Contractor's Personnel shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Engineer may require the Contractor to remove (or cause to be removed) any person employed on the <u>Site</u> or <u>Works</u>, including the <u>Contractor's Representative</u> if applicable, who:

- (a) persists in any misconduct or lack of care,
- (b) carries out duties incompetently or negligently,
- (c) fails to conform with any provisions of the $\underline{\mathrm{Contract}}$, or
- (d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment.

If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.

6.10 Records of Contractor's Personnel and Equipment

The Contractor shall submit, to the Engineer, details showing the number of each class of Contractor's Personnel and of each type of <u>Contractor's Equipment</u> on the <u>Site</u>. Details shall be submitted each calendar month, in a form approved by the Engineer, until the Contractor has completed all work which is known to be outstanding at the completion date stated in the <u>Taking-Over Certificate</u> for the <u>Works</u>.

6.11 Disorderly Conduct

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst the <u>Contractor's Personnel</u>, and to preserve peace and protection of persons and property on and near the <u>Site</u>.



7 Plant, Materials and Workmanship

7.1 Manner of Execution

The Contractor shall carry out the manufacture of <u>Plant</u>, the production and manufacture of <u>Materials</u>, and all other execution of the <u>Works</u>:

- (a) in the manner (if any) specified in the Contract,
- (b) in a proper workmanlike and careful manner, in accordance with recognised good practice, and
- (c) with properly equipped facilities and non-hazardous <u>Materials</u>, except as otherwise specified in the <u>Contract</u>.

7.2 Samples

The Contractor shall submit the following samples of <u>Materials</u>, and relevant information, to the Engineer for review in accordance with the procedures for <u>Contractor's Documents</u> described in <u>Sub-Clause 5.2</u> [<u>Contractor's Documents</u>]:

- (a) manufacturer's standard samples of $\underline{Materials}$ and samples specified in the $\underline{Contract}$, all at the Contractor's cost, and
- (b) additional samples instructed by the Engineer as a <u>Variation</u>.

Each sample shall be labelled as to origin and intended use in the \underline{Works} .

7.3 Inspection

The <u>Employer's Personnel</u> shall at all reasonable times:

- (a) have full access to all parts of the $\underline{\rm Site}$ and to all places from which natural $\underline{\rm Materials}$ are being obtained, and
- (b) during production, manufacture and construction (at the <u>Site</u> and elsewhere), be entitled to examine, inspect, measure and test the materials and workmanship, and to check the progress of manufacture of <u>Plant</u> and production and manufacture of <u>Materials</u>.



The Contractor shall give the <u>Employer's Personnel</u> full opportunity to carry out these activities, including providing access, facilities, permissions and safety equipment. No such activity shall relieve the Contractor from any obligation or responsibility.

The Contractor shall give notice to the Engineer whenever any work is ready and before it is covered up, put out of sight, or packaged for storage or transport. The Engineer shall then either carry out the examination, inspection, measurement or testing without unreasonable delay, or promptly give notice to the Contractor that the Engineer does not require to do so. If the Contractor fails to give the notice, he shall, if and when required by the Engineer, uncover the work and thereafter reinstate and make good, all at the Contractor's cost.

7.4 Testing

This Sub-Clause shall apply to all tests specified in the <u>Contract</u>, other than the Tests after Completion (if any).

The Contractor shall provide all apparatus, assistance, documents and other information, electricity, equipment, fuel, consumables, instruments, labour, materials, and suitably qualified and experienced staff, as are necessary to carry out the specified tests efficiently. The Contractor shall agree, with the Engineer, the time and place for the specified testing of any <u>Plant</u>, <u>Materials</u> and other parts of the <u>Works</u>.

The Engineer may, under <u>Clause 13</u> [<u>Variation</u>s and Adjustments], vary the location or details of specified tests, or instruct the Contractor to carry out additional tests. If these varied or additional tests show that the tested <u>Plant</u>, <u>Materials</u> or workmanship is not in accordance with the <u>Contract</u>, the cost of carrying out this <u>Variation</u> shall be borne by the Contractor, notwithstanding other provisions of the <u>Contract</u>.

The Engineer shall give the Contractor not less than 24 hours' notice of the Engineer's intention to attend the tests. If the Engineer does not attend at the time and place agreed, the Contractor may proceed with the tests, unless otherwise instructed by the Engineer, and the tests shall then be deemed to have been made in the Engineer's presence.

If the Contractor suffers delay and/or incurs \underline{Cost} from complying with these instructions or as a result of a delay for which the Employer is responsible, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:

(a) an extension of time for any such delay, if completion is or will be delayed, under <u>Sub-Clause 8.4</u> [*Extension of <u>Time for Completion</u>*], and



(b) payment of any such \underline{Cost} plus reasonable profit, which shall be included in the <u>Contract</u> Price.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine these matters.

The Contractor shall promptly forward to the Engineer duly certified reports of the tests. When the specified tests have been passed, the Engineer shall endorse the Contractor's test certificate, or issue a certificate to him, to that effect. If the Engineer has not attended the tests, he shall be deemed to have accepted the readings as accurate.

7.5 Rejection

If, as a result of an examination, inspection, measurement or testing, any <u>Plant</u>, <u>Materials</u>, design or workmanship is found to be defective or otherwise not in accordance with the <u>Contract</u>, the Engineer may reject the <u>Plant</u>, <u>Materials</u>, design or workmanship by giving notice to the Contractor, with reasons. The Contractor shall then promptly make good the defect and ensure that the rejected item complies with the <u>Contract</u>.

If the Engineer requires this <u>Plant</u>, <u>Materials</u>, design or workmanship to be retested, the tests shall be repeated under the same terms and conditions. If the rejection and retesting cause the Employer to incur additional costs, the Contractor shall subject to <u>Sub-Clause 2.5</u> [*Employer's Claims*] pay these costs to the Employer.

7.6 Remedial Work

Notwithstanding any previous test or certification, the Engineer may instruct the Contractor to:

- (a) remove from the <u>Site</u> and replace any <u>Plant</u> or <u>Materials</u> which is not in accordance with the <u>Contract</u>,
- (b) remove and re-execute any other work which is not in accordance with the <u>Contract</u>, and
- (c) execute any work which is urgently required for the safety of the \underline{Works} , whether because of an accident, unforeseeable event or otherwise.

The Contractor shall comply with the instruction within a reasonable time, which shall be the time (if any) specified in the instruction, or immediately if urgency is specified under sub-paragraph (c).



If the Contractor fails to comply with the instruction, the Employer shall be entitled to employ and pay other persons to carry out the work. Except to the extent that the Contractor would have been entitled to payment for the work, the Contractor shall subject to <u>Sub-Clause 2.5</u> [*Employer's Claims*] pay to the Employer all costs arising from this failure.

7.7 Ownership of Plant and Materials

Each item of <u>Plant</u> and <u>Materials</u> shall, to the extent consistent with the <u>Laws</u> of the <u>Country</u>, become the property of the Employer at whichever is the earlier of the following times, free from liens and other encumbrances:

- (a) when it is delivered to the <u>Site</u>;
- (b) when the Contractor is entitled to payment of the value of the <u>Plant</u> and <u>Materials</u> under <u>Sub-Clause 8.10</u> [*Payment for <u>Plant</u> and <u>Materials</u> in Event of Suspension*].

7.8 Royalties

Unless otherwise stated in the <u>Employer's Requirements</u>, the Contractor shall pay all royalties, rents and other payments for:

- (a) natural $\underline{Materials}$ obtained from outside the \underline{Site} , and
- (b) the disposal of material from demolitions and excavations and of other surplus material (whether natural or man-made), except to the extent that disposal areas within the <u>Site</u> are specified in the <u>Contract</u>.



8 Commencement, Delays and Suspension

8.1 Commencement of <u>Works</u>

The Engineer shall give the Contractor not less than $7 \frac{\text{day}}{\text{s}}$ ' notice of the <u>Commencement</u> <u>Date</u>. Unless otherwise stated in the Particular Conditions, the <u>Commencement Date</u> shall be within 42 <u>day</u>s after the Contractor receives the <u>Letter of Acceptance</u>.

The Contractor shall commence the design and execution of the <u>Works</u> as soon as is reasonably practicable after the <u>Commencement Date</u>, and shall then proceed with the <u>Works</u> with due expedition and without delay.

8.2 <u>Time for Completion</u>

The Contractor shall complete the whole of the \underline{Works} , and each $\underline{Section}$ (if any), within the $\underline{Time for Completion}$ for the \underline{Works} or $\underline{Section}$ (as the case may be), including:

- (a) achieving the passing of the $\underline{{\tt Tests}}$ on $\underline{{\tt Completion}},$ and
- (b) completing all work which is stated in the <u>Contract</u> as being required for the <u>Works</u> or <u>Section</u> to be considered to be completed for the purposes of taking-over under <u>Sub-Clause 10.1</u> [*Taking Over of the <u>Works</u> and <u>Section</u>s].*

8.3 Programme

The Contractor shall submit a detailed time programme to the Engineer within 28 days after receiving the notice under <u>Sub-Clause 8.1</u> [Commencement of <u>Works</u>]. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress or with the Contractor's obligations. Each programme shall include:

- (a) the order in which the Contractor intends to carry out the <u>Works</u>, including the anticipated timing of each stage of design, <u>Contractor's Documents</u>, procurement, manufacture, inspection, delivery to <u>Site</u>, construction, erection, testing, commissioning and trial operation,
- (b) the periods for reviews under <u>Sub-Clause 5.2</u> [<u>Contractor's Documents</u>] and for any other submissions, approvals and consents specified in the <u>Employer's</u> <u>Requirements</u>,



(c) the sequence and timing of inspections and tests specified in the Contract, and

- (d) a supporting report which includes:
- (i) a general description of the methods which the Contractor intends to adopt, and of the major stages, in the execution of the <u>Works</u>, and
- (ii) details showing the Contractor's reasonable estimate of the number of each class of <u>Contractor's Personnel</u> and of each type of <u>Contractor's Equipment</u>, required on the <u>Site</u> for each major stage.

Unless the Engineer, within 21 \underline{day} s after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the <u>Contract</u>, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the <u>Contract</u>. The <u>Employer's Personnel</u> shall be entitled to rely upon the programme when planning their activities.

The Contractor shall promptly give notice to the Engineer of specific probable future events or circumstances which may adversely affect the work, increase the <u>Contract</u> Price or delay the execution of the <u>Works</u>. The Engineer may require the Contractor to submit an estimate of the anticipated effect of the future event or circumstances, and/or a proposal under <u>Sub-Clause 13.3</u> [*Variation Procedure*].

If, at any time, the Engineer gives notice to the Contractor that a programme fails (to the extent stated) to comply with the <u>Contract</u> or to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Engineer in accordance with this Sub-Clause.

8.4 Extension of <u>Time for Completion</u>

The Contractor shall be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to an extension of the <u>Time for Completion</u> if and to the extent that completion for the purposes of <u>Sub-Clause 10.1</u> [*Taking Over of the <u>Works</u> and <u>Section</u>s] is or will be delayed by any of the following causes:*

- (a) a <u>Variation</u> (unless an adjustment to the <u>Time for Completion</u> has been agreed under <u>Sub-Clause 13.3</u> [<u>Variation</u> Procedure]),
- (b) a cause of delay giving an entitlement to extension of time under a Sub-Clause of these Conditions,
- (c) exceptionally adverse climatic conditions,



- (d) <u>Unforeseeable</u> shortages in the availability of personnel or <u>Goods</u> caused by epidemic or governmental actions, or
- (e) any delay, impediment or prevention caused by or attributable to the Employer, the Employer's Personnel, or the Employer's other contractors on the <u>Site</u>.

If the Contractor considers himself to be entitled to an extension of the <u>Time for</u> <u>Completion</u>, the Contractor shall give notice to the Engineer in accordance with <u>Sub-Clause 20.1</u> [*Contractor's Claims*]. When determining each extension of time under <u>Sub-Clause 20.1</u>, the Engineer shall review previous determinations and may increase, but shall not decrease, the total extension of time.

8.5 Delays Caused by Authorities

If the following conditions apply, namely:

- (a) the Contractor has diligently followed the procedures laid down by the relevant legally constituted public authorities in the <u>Country</u>,
- (b) these authorities delay or disrupt the Contractor's work, and
- (c) the delay or disruption was <u>Unforeseeable</u>,

then this delay or disruption will be considered as a cause of delay under sub-paragraph (b) of <u>Sub-Clause 8.4</u> [*Extension of <u>Time for Completion</u>*].

8.6 Rate of Progress

If, at any time:

- (a) actual progress is too slow to complete within the <u>Time for Completion</u>, and/or
- (b) progress has fallen (or will fall) behind the current programme under <u>Sub-Clause 8.3</u> [*Programme*],

other than as a result of a cause listed in <u>Sub-Clause 8.4</u> [*Extension of <u>Time for</u> <u>Completion</u>], then the Engineer may instruct the Contractor to submit, under <u>Sub-Clause 8.3</u> [<i>Programme*], a revised programme and supporting report describing the revised methods which the Contractor proposes to adopt in order to expedite progress and complete within the <u>Time for Completion</u>.

Unless the Engineer notifies otherwise, the Contractor shall adopt these revised methods, which may require increases in the working hours and/or in the numbers of Contractor's Personnel and/or \underline{Goods} , at the risk and cost of the Contractor. If



these revised methods cause the Employer to incur additional costs, the Contractor shall subject to <u>Sub-Clause 2.5</u> [*Employer's Claims*] pay these costs to the Employer, in addition to delay damages (if any) under <u>Sub-Clause 8.7</u> below.

8.7 Delay Damages

If the Contractor fails to comply with <u>Sub-Clause 8.2</u> [*Time for Completion*], the Contractor shall subject to <u>Sub-Clause 2.5</u> [*Employer's Claims*] pay delay damages to the Employer for this default. These delay damages shall be the sum stated in the <u>Appendix to Tender</u>, which shall be paid for every <u>day</u> which shall elapse between the relevant <u>Time for Completion</u> and the date stated in the <u>Taking-Over Certificate</u>. However, the total amount due under this Sub-Clause shall not exceed the maximum amount of delay damages (if any) stated in the <u>Appendix to Tender</u>.

These delay damages shall be the only damages due from the Contractor for such default, other than in the event of termination under <u>Sub-Clause 15.2</u> [*Termination by Employer*] prior to completion of the <u>Works</u>. These damages shall not relieve the Contractor from his obligation to complete the <u>Works</u>, or from any other duties, obligations or responsibilities which he may have under the <u>Contract</u>.

8.8 Suspension of Work

The Engineer may at any time instruct the Contractor to suspend progress of part or all of the <u>Works</u>. During such suspension, the Contractor shall protect, store and secure such part or the <u>Works</u> against any deterioration, loss or damage.

The Engineer may also notify the cause for the suspension. If and to the extent that the cause is notified and is the responsibility of the Contractor, the following Sub-Clauses 8.9, 8.10 and 8.11 shall not apply.

8.9 Consequences of Suspension

If the Contractor suffers delay and/or incurs <u>Cost</u> from complying with the Engineer's instructions under Sub-Clause 8.8 [*Suspension of Work*] and/or from resuming the work, the Contractor shall give notice to the Engineer and shall be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under <u>Sub-Clause 8.4</u> [*Extension of <u>Time for Completion</u>*], and
- (b) payment of any such <u>Cost</u>, which shall be included in the <u>Contract Price</u>.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine these matters.



The Contractor shall not be entitled to an extension of time for, or to payment of the <u>Cost</u> incurred in, making good the consequences of the Contractor's faulty design, workmanship or materials, or of the Contractor's failure to protect, store or secure in accordance with Sub-Clause 8.8 [*Suspension of Work*].

8.10 Payment for <u>Plant</u> and <u>Materials</u> in Event of Suspension

The Contractor shall be entitled to payment of the value (as at the date of suspension) of <u>Plant</u> and/or <u>Materials</u> which have not been delivered to <u>Site</u>, if:

- (a) the work on Plant or delivery of Plant and/or Materials has been suspended for more than 28 days, and
- (b) the Contractor has marked the Plant and/or Materials as the Employer's property in accordance with the Engineer's instructions.

8.11 Prolonged Suspension

If the suspension under <u>Sub-Clause 8.8</u> [*Suspension of Work*] has continued for more than 84 <u>days</u>, the Contractor may request the Engineer's permission to proceed. If the Engineer does not give permission within 28 <u>days</u> after being requested to do so, the Contractor may, by giving notice to the Engineer, treat the suspension as an omission under <u>Clause 13</u> [*Variations and Adjustments*] of the affected part of the <u>Works</u>. If the suspension affects the whole of the <u>Works</u>, the Contractor may give notice of termination under <u>Sub-Clause 16.2</u> [*Termination by Contractor*].

8.12 Resumption of Work

After the permission or instruction to proceed is given, the Contractor and the Engineer shall jointly examine the <u>Works</u> and the <u>Plant</u> and <u>Materials</u> affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the <u>Works</u> or <u>Plant</u> or <u>Materials</u>, which has occurred during the suspension.



9 Tests on Completion

9.1 Contractor's Obligations

The Contractor shall carry out the <u>Tests on Completion</u> in accordance with this Clause and <u>Sub-Clause 7.4</u> [*Testing*], after providing the documents in accordance with <u>Sub-Clause 5.6</u> [*As-Built Documents*] and <u>Sub-Clause 5.7</u> [*Operation and Maintenance Manuals*].

The Contractor shall give to the Engineer not less than 21 <u>day</u>s' notice of the date after which the Contractor will be ready to carry out each of the <u>Tests on Completion</u>. Unless otherwise agreed, <u>Tests on Completion</u> shall be carried out within 14 <u>day</u>s after this date, on such <u>day</u> or <u>day</u>s as the Engineer shall instruct.

Unless otherwise stated in the Particular Conditions, the <u>Tests on Completion</u> shall be carried out in the following sequence:

- (a) pre-commissioning tests, which shall include the appropriate inspections and ("dry" or "cold") functional tests to demonstrate that each item of <u>Plant</u> can safely undertake the next stage, (b);
- (b) commissioning tests, which shall include the specified operational tests to demonstrate that the <u>Works</u> or <u>Section</u> can be operated safely and as specified, under all available operating conditions; and
- (c) trial operation, which shall demonstrate that the <u>Works</u> or <u>Section</u> perform reliably and in accordance with the <u>Contract</u>.

During trial operation, when the <u>Works</u> are operating under stable conditions, the Contractor shall give notice to the Engineer that the <u>Works</u> are ready for any other <u>Tests on Completion</u>, including performance tests to demonstrate whether the <u>Works</u> conform with criteria specified in the <u>Employer's Requirements</u> and with the <u>Schedule of Guarantees</u>.

Trial operation shall not constitute a taking-over under <u>Clause 10</u> [*Employer's Taking Over*]. Unless otherwise stated in the Particular Conditions, any product produced by the <u>Works</u> during trial operation shall be the property of the Employer.

In considering the results of the <u>Tests on Completion</u>, the Engineer shall make allowances for the effect of any use of the <u>Works</u> by the Employer on the



performance or other characteristics of the <u>Works</u>. As soon as the <u>Works</u>, or a <u>Section</u>, have passed each of the <u>Tests on Completion</u> described in sub-paragraph (a), (b) or (c), the Contractor shall submit a certified report of the results of these Tests to the Engineer.

9.2 Delayed Tests

If the Tests on Completion are being unduly delayed by the Employer, <u>Sub-Clause 7.4</u> [*Testing*] (fifth paragraph) and/or <u>Sub-Clause 10.3</u> [*Interference with Tests on Completion*] shall be applicable.

If the Tests on Completion are being unduly delayed by the Contractor, the Engineer may by notice require the Contractor to carry out the Tests within 21 <u>days</u> after receiving the notice. The Contractor shall carry out the Tests on such <u>day</u> or <u>days</u> within that period as the Contractor may fix and of which he shall give notice to the Engineer.

If the Contractor fails to carry out the <u>Tests on Completion</u> within the period of 21 <u>days</u>, the <u>Employer's Personnel</u> may proceed with the Tests at the risk and cost of the Contractor. The <u>Tests on Completion</u> shall then be deemed to have been carried out in the presence of the Contractor and the results of the Tests shall be accepted as accurate.

9.3 Retesting

If the <u>Works</u>, or a <u>Section</u>, fail to pass the <u>Tests on Completion</u>, <u>Sub-Clause 7.5</u> [*Rejection*] shall apply, and the Engineer or the Contractor may require the failed Tests, and <u>Tests on Completion</u> on any related work, to be repeated under the same terms and conditions.

9.4 Failure to Pass Tests on Completion

If the <u>Works</u>, or a <u>Section</u>, fail to pass the <u>Tests on Completion</u> repeated under <u>Sub-Clause 9.3</u> [*Retesting*], the Engineer shall be entitled to:

- (a) order further repetition of Tests on Completion under Sub-Clause 9.3;
- (b) if the failure deprives the Employer of substantially the whole benefit of the Works or Section, reject the Works or Section (as the case may be), in which event the Employer shall have the same remedies as are provided in sub-paragraph (c) of Sub-Clause 11.4 [Failure to Remedy Defects]; or
- (c) issue a Taking-Over Certificate, if the Employer so requests.



FIDIC Conditions of Contract for Plant And Design-Build Contract First Edition, 1999

In the event of sub-paragraph (c), the Contractor shall then proceed in accordance with all other obligations under the <u>Contract</u>, and the <u>Contract Price</u> shall be reduced by such amount as shall be appropriate to cover the reduced value to the Employer as a result of this failure. Unless the relevant reduction for this failure is stated (or its method of calculation is defined) in the <u>Contract</u>, the Employer may require the reduction to be (i) agreed by both <u>Parties</u> (in full satisfaction of this failure only) and paid before this <u>Taking-Over Certificate</u> is issued, or (ii) determined and paid under <u>Sub-Clause 2.5</u> [*Employer's Claims*] and <u>Sub-Clause 3.5</u> [*Determinations*].



10 Employer's Taking Over

10.1 Taking Over of the Works and Sections

Except as stated in <u>Sub-Clause 9.4</u> [*Failure to Pass <u>Tests on Completion</u>*], the <u>Works</u> shall be taken over by the Employer when (i) the <u>Works</u> have been completed in accordance with the <u>Contract</u>, including the matters described in <u>Sub-Clause 8.2</u> [<u>*Time for Completion*</u>] and except as allowed in sub-paragraph (a) below, and (ii) a <u>Taking-Over Certificate</u> for the <u>Works</u> has been issued, or is deemed to have been issued in accordance with this Sub-Clause.

The Contractor may apply by notice to the Engineer for a <u>Taking-Over Certificate</u> not earlier than 14 <u>days</u> before the <u>Works</u> will, in the Contractor's opinion, be complete and ready for taking over. If the <u>Works</u> are divided into <u>Section</u>s, the Contractor may similarly apply for a <u>Taking-Over Certificate</u> for each <u>Section</u>.

The Engineer shall, within 28 <u>day</u>s after receiving the Contractor's application:

- (a) issue the <u>Taking-Over Certificate</u> to the Contractor, stating the date on which the <u>Works</u> or <u>Section</u> were completed in accordance with the <u>Contract</u>, except for any minor outstanding work and defects which will not substantially affect the use of the <u>Works</u> or <u>Section</u> for their intended purpose (either until or whilst this work is completed and these defects are remedied); or
- (b) reject the application, giving reasons and specifying the work required to be done by the Contractor to enable the <u>Taking-Over Certificate</u> to be issued. The Contractor shall then complete this work before issuing a further notice under this Sub-Clause.

If the Engineer fails either to issue the <u>Taking-Over Certificate</u> or to reject the Contractor's application within the period of 28 <u>days</u>, and if the <u>Works</u> or <u>Section</u> (as the case may be) are substantially in accordance with the <u>Contract</u>, the <u>Taking-Over</u> <u>Certificate</u> shall be deemed to have been issued on the last <u>day</u> of that period.

10.2 Taking Over of Parts of the Works

The Engineer may, at the sole discretion of the Employer, issue a <u>Taking-Over</u> <u>Certificate</u> for any part of the <u>Permanent Works</u>.



The Employer shall not use any part of the <u>Works</u> (other than as a temporary measure which is either specified in the <u>Contract</u> or agreed by both <u>Parties</u>) unless and until the Engineer has issued a <u>Taking-Over Certificate</u> for this part. However, if the Employer does use any part of the <u>Works</u> before the <u>Taking-Over Certificate</u> is issued:

- (a) the part which is used shall be deemed to have been taken over as from the date on which it is used,
- (b) the Contractor shall cease to be liable for the care of such part as from this date, when responsibility shall pass to the Employer, and
- (c) if requested by the Contractor, the Engineer shall issue a Taking-Over Certificate for this part.

After the Engineer has issued a <u>Taking-Over Certificate</u> for a part of the <u>Works</u>, the Contractor shall be given the earliest opportunity to take such steps as may be necessary to carry out any outstanding <u>Tests on Completion</u>. The Contractor shall carry out these <u>Tests on Completion</u> as soon as practicable before the expiry date of the relevant <u>Defects Notification Period</u>.

If the Contractor incurs <u>Cost</u> as a result of the Employer taking over and/or using a part of the <u>Works</u>, other than such use as is specified in the <u>Contract</u> or agreed by the Contractor, the Contractor shall (i) give notice to the Engineer and (ii) be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to payment of any such <u>Cost</u> plus reasonable profit, which shall be included in the <u>Contract</u> Price. After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine this <u>Cost</u> and profit.

If a <u>Taking-Over Certificate</u> has been issued for a part of the <u>Works</u> (other than a <u>Section</u>), the delay damages thereafter for completion of the remainder of the <u>Works</u> shall be reduced. Similarly, the delay damages for the remainder of the <u>Section</u> (if any) in which this part is included shall also be reduced. For any period of delay after the date stated in this <u>Taking-Over Certificate</u>, the proportional reduction in these delay damages shall be calculated as the proportion which the value of the part so certified bears to the value of the <u>Works</u> or <u>Section</u> (as the case may be) as a whole. The Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine these proportions. The provisions of this paragraph shall only apply to the daily rate of delay damages under <u>Sub-Clause 8.7</u> [*Delay Damages*], and shall not affect the maximum amount of these damages.

10.3 Interference with <u>Tests on Completion</u>



If the Contractor is prevented, for more than 14 <u>day</u>s, from carrying out the <u>Tests</u> <u>on Completion</u> by a cause for which the Employer is responsible, the Employer shall be deemed to have taken over the <u>Works</u> or <u>Section</u> (as the case may be) on the date when the <u>Tests on Completion</u> would otherwise have been completed.

The Engineer shall then issue a <u>Taking-Over Certificate</u> accordingly, and the Contractor shall carry out the <u>Tests on Completion</u> as soon as practicable, before the expiry date of the <u>Defects Notification Period</u>. The Engineer shall require the <u>Tests</u> on <u>Completion</u> to be carried out by giving 14 <u>day</u>s' notice and in accordance with the relevant provisions of the <u>Contract</u>.

If the Contractor suffers delay and/or incurs <u>Cost</u> as a result of this delay in carrying out the <u>Tests on Completion</u>, the Contractor shall give notice to the Engineer and shall be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under <u>Sub-Clause 8.4</u> [*Extension of <u>Time for Completion</u>*], and
- (b) payment of any such <u>Cost</u> plus reasonable profit, which shall be included in the <u>Contract</u> Price.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine these matters.

10.4 Surfaces Requiring Reinstatement

Except as otherwise stated in a <u>Taking-Over Certificate</u>, a certificate for a <u>Section</u> or part of the <u>Works</u> shall not be deemed to certify completion of any ground or other surfaces requiring reinstatement.



11 Defects Liability

11.1 Completion of Outstanding Work and Remedying Defects

In order that the <u>Works</u> and <u>Contractor's Documents</u>, and each <u>Section</u>, shall be in the condition required by the <u>Contract</u> (fair wear and tear excepted) by the expiry date of the relevant <u>Defects Notification Period</u> or as soon as practicable thereafter, the Contractor shall:

- (a) complete any work which is outstanding on the date stated in a Taking-Over Certificate, within such reasonable time as is instructed by the Engineer, and
- (b) execute all work required to remedy defects or damage, as may be notified by (or on behalf of) the Employer on or before the expiry date of the Defects Notification Period for the Works or Section (as the case may be).

If a defect appears or damage occurs, the Contractor shall be notified accordingly, by (or on behalf of) the Employer.

11.2 <u>Cost</u> of Remedying Defects

All work referred to in sub-paragraph (b) of <u>Sub-Clause 11.1</u> [*Completion of Outstanding Work and Remedying Defects*] shall be executed at the risk and cost of the Contractor, if and to the extent that the work is attributable to:

- (a) the design of the Works, other than a part of the design for which the Employer is responsible (if any),
- (b) Plant, Materials or workmanship not being in accordance with the Contract,
- (c) improper operation or maintenance which was attributable to matters for which the Contractor is responsible (under Sub-Clauses 5.5 to 5.7 or otherwise), or
- (d) failure by the Contractor to comply with any other obligation.

If and to the extent that such work is attributable to any other cause, the Contractor shall be notified promptly by (or on behalf of) the Employer, and <u>Sub-Clause 13.3</u> [*Variation Procedure*] shall apply.



11.3 Extension of Defects Notification Period

The Employer shall be entitled subject to <u>Sub-Clause 2.5</u> [*Employer's Claims*] to an extension of the <u>Defects Notification Period</u> for the <u>Works</u> or a <u>Section</u> if and to the extent that the <u>Works</u>, <u>Section</u> or a major item of <u>Plant</u> (as the case may be, and after taking over) cannot be used for the purposes for which they are intended by reason of a defect or damage. However, a <u>Defects Notification Period</u> shall not be extended by more than two <u>years</u>.

If delivery and/or erection of <u>Plant</u> and/or <u>Materials</u> was suspended under <u>Sub-Clause 8.8</u> [*Suspension of Work*] or <u>Sub-Clause 16.1</u> [*Contractor's Entitlement to Suspend Work*], the Contractor's obligations under this Clause shall not apply to any defects or damage occurring more than two <u>years</u> after the Defects Notification Period for the <u>Plant</u> and/or <u>Materials</u> would otherwise have expired.

11.4 Failure to Remedy Defects

If the Contractor fails to remedy any defect or damage within a reasonable time, a date may be fixed by (or on behalf of) the Employer, on or by which the defect or damage is to be remedied. The Contractor shall be given reasonable notice of this date.

If the Contractor fails to remedy the defect or damage by this notified date and this remedial work was to be executed at the cost of the Contractor under <u>Sub-Clause 11.2</u> [*Cost* of *Remedying Defects*], the Employer may (at his option):

- (a) carry out the work himself or by others, in a reasonable manner and at the Contractor's cost, but the Contractor shall have no responsibility for this work; and the Contractor shall subject to Sub-Clause 2.5 [Employer's Claims] pay to the Employer the costs reasonably incurred by the Employer in remedying the defect or damage;
- (b) require the Engineer to agree or determine a reasonable reduction in the Contract Price in accordance with Sub-Clause 3.5 [Determinations]; or
- (c) if the defect or damage deprives the Employer of substantially the whole benefit of the Works or any major part of the Works, terminate the Contract as a whole, or in respect of such major part which cannot be put to the intended use. Without prejudice to any other rights, under the Contract or otherwise, the Employer shall then be entitled to recover all sums paid for the Works or for such part (as the case may be), plus financing costs and the cost of dismantling the same, clearing the Site and returning Plant and Materials to the Contractor.



11.5 Removal of Defective Work

If the defect or damage cannot be remedied expeditiously on the <u>Site</u> and the Employer gives consent, the Contractor may remove from the <u>Site</u> for the purposes of repair such items of <u>Plant</u> as are defective or damaged. This consent may require the Contractor to increase the amount of the <u>Performance Security</u> by the full replacement cost of these items, or to provide other appropriate security.

11.6 Further Tests

If the work of remedying of any defect or damage may affect the performance of the <u>Works</u>, the Engineer may require the repetition of any of the tests described in the <u>Contract</u>, including <u>Tests on Completion</u> and/or <u>Tests after Completion</u>. The requirement shall be made by notice within 28 <u>days</u> after the defect or damage is remedied.

These tests shall be carried out in accordance with the terms applicable to the previous tests, except that they shall be carried out at the risk and cost of the <u>Party</u> liable, under <u>Sub-Clause 11.2</u> [*Cost* of *Remedying Defects*], for the cost of the remedial work.

11.7 Right of Access

Until the Performance Certificate has been issued, the Contractor shall have the right of access to all parts of the <u>Works</u> and to records of the operation and performance of the <u>Works</u>, except as may be inconsistent with the Employer's reasonable security restrictions.

11.8 Contractor to Search

The Contractor shall, if required by the Engineer, search for the cause of any defect, under the direction of the Engineer. Unless the defect is to be remedied at the cost of the Contractor under <u>Sub-Clause 11.2</u> [*Cost of Remedying Defects*], the <u>Cost</u> of the search plus reasonable profit shall be agreed or determined by the Engineer in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] and shall be included in the <u>Contract Price</u>.

11.9 Performance Certificate

Performance of the Contractor's obligations shall not be considered to have been completed until the Engineer has issued the <u>Performance Certificate</u> to the Contractor, stating the date on which the Contractor completed his obligations under the <u>Contract</u>.



The Engineer shall issue the <u>Performance Certificate</u> within 28 <u>day</u>s after the latest of the expiry dates of the <u>Defects Notification Period</u>s, or as soon thereafter as the Contractor has supplied all the <u>Contractor's Documents</u> and completed and tested all the <u>Works</u>, including remedying any defects. A copy of the <u>Performance</u> <u>Certificate</u> shall be issued to the Employer.

Only the <u>Performance Certificate</u> shall be deemed to constitute acceptance of the <u>Works</u>.

11.10 Unfulfilled Obligations

After the <u>Performance Certificate</u> has been issued, each <u>Party</u> shall remain liable for the fulfilment of any obligation which remains unperformed at that time. For the purposes of determining the nature and extent of unperformed obligations, the <u>Contract</u> shall be deemed to remain in force.

11.11 Clearance of Site

Upon receiving the <u>Performance Certificate</u>, the Contractor shall remove any remaining Contractor's Equipment, surplus material, wreckage, rubbish and <u>Temporary Works</u> from the <u>Site</u>.

If all these items have not been removed within 28 <u>days</u> after the Employer receives a copy of the <u>Performance Certificate</u>, the Employer may sell or otherwise dispose of any remaining items. The Employer shall be entitled to be paid the costs incurred in connection with, or attributable to, such sale or disposal and restoring the <u>Site</u>.

Any balance of the moneys from the sale shall be paid to the Contractor. If these moneys are less than the Employer's costs, the Contractor shall pay the outstanding balance to the Employer.



12 Tests after Completion

12.1 Procedure for Tests after Completion

If <u>Tests after Completion</u> are specified in the <u>Contract</u>, this Clause shall apply. Unless otherwise stated in the Particular Conditions, the Employer shall:

- (a) provide all electricity, equipment, fuel, instruments, labour, materials, and suitably qualified and experienced staff, as are necessary to carry out the Tests after Completion efficiently, and
- (b) carry out the Tests after Completion in accordance with the manuals supplied by the Contractor under Sub-Clause 5.7 [Operation and Maintenance Manuals] and such guidance as the Contractor may be required to give during the course of these Tests; and in the presence of such Contractor's Personnel as either Party may reasonably request.

The <u>Tests after Completion</u> shall be carried out as soon as is reasonably practicable after the <u>Works</u> or <u>Section</u> have been taken over by the Employer. The Employer shall give to the Contractor 21 <u>days</u>' notice of the date after which the <u>Tests after</u> <u>Completion</u> will be carried out. Unless otherwise agreed, these Tests shall be carried out within 14 <u>days</u> after this date, on the <u>day</u> or <u>days</u> determined by the Employer.

If the Contractor does not attend at the time and place agreed, the Employer may proceed with the <u>Tests after Completion</u>, which shall be deemed to have been made in the Contractor's presence, and the Contractor shall accept the readings as accurate.

The results of the <u>Tests after Completion</u> shall be compiled and evaluated by both <u>Parties</u>. Appropriate account shall be taken of the effect of the Employer's prior use of the <u>Works</u>.

12.2 Delayed Tests

If the Contractor incurs <u>Cost</u> as a result of any unreasonable delay by the Employer to the <u>Tests after Completion</u>, the Contractor shall (i) give notice to the Engineer and (ii) be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to payment of any such <u>Cost</u> plus reasonable profit, which shall be included in the <u>Contract Price</u>.



After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine this <u>Cost</u> and profit.

If, for reasons not attributable to the Contractor, a <u>Tests after Completion</u> on the <u>Works</u> or any <u>Section</u> cannot be completed during the <u>Defects Notification Period</u> (or any other period agreed upon by both <u>Parties</u>), then the <u>Works</u> or <u>Section</u> shall be deemed to have passed this <u>Tests after Completion</u>.

12.3 Retesting

If the <u>Works</u>, or a <u>Section</u>, fail to pass the <u>Tests after Completion</u>:

- (a) sub-paragraph (b) of Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects] shall apply, and
- (b) either Party may then require the failed Tests, and the Tests after Completion on any related work, to be repeated under the same terms and conditions.

If and to the extent that this failure and retesting are attributable to any of the matters listed in sub-paragraphs (a) to (d) of <u>Sub-Clause 11.2</u> [*Cost* of *Remedying Defects*] and cause the Employer to incur additional costs, the Contractor shall subject to <u>Sub-Clause 2.5</u> [*Employer's Claims*] pay these costs to the Employer.

12.4 Failure to Pass Tests after Completion

If the following conditions apply, namely:

- (a) the Works, or a Section, fail to pass any or all of the Tests after Completion,
- (b) the relevant sum payable as non-performance damages for this failure is stated (or its method of calculation is defined) in the Contract, and
- (c) the Contractor pays this relevant sum to the Employer during the Defects Notification Period,

then the <u>Works</u> or <u>Section</u> shall be deemed to have passed these <u>Tests after</u> <u>Completion</u>.

If the <u>Works</u>, or a <u>Section</u>, fail to pass a Test after Completion and the Contractor proposes to make adjustments or modifications to the <u>Works</u> or such <u>Section</u>, the Contractor may be instructed by (or on behalf of) the Employer that right of access to the <u>Works</u> or <u>Section</u> cannot be given until a time that is convenient to the Employer. The Contractor shall then remain liable to carry out the adjustments or



modifications and to satisfy this Test, within a reasonable period of receiving notice by (or on behalf of) the Employer of the time that is convenient to the Employer. However, if the Contractor does not receive this notice during the relevant <u>Defects</u> <u>Notification Period</u>, the Contractor shall be relieved of this obligation and the <u>Works</u> or <u>Section</u> (as the case may be) shall be deemed to have passed this <u>Tests after</u> <u>Completion</u>.

If the Contractor incurs additional <u>Cost</u> as a result of any unreasonable delay by the Employer in permitting access to the <u>Works</u> or <u>Plant</u> by the Contractor, either to investigate the causes of a failure to pass a <u>Tests after Completion</u> or to carry out any adjustments or modifications, the Contractor shall (i) give notice to the Engineer and (ii) be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to payment of any such <u>Cost</u> plus reasonable profit, which shall be included in the <u>Contract Price</u>.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine this <u>Cost</u> and profit.



13 Variations and Adjustments

13.1 Right to Vary

<u>Variation</u>s may be initiated by the Engineer at any time prior to issuing the <u>Taking-Over Certificate</u> for the <u>Works</u>, either by an instruction or by a request for the Contractor to submit a proposal. A <u>Variation</u> shall not comprise the omission of any work which is to be carried out by others.

The Contractor shall execute and be bound by each <u>Variation</u>, unless the Contractor promptly gives notice to the Engineer stating (with supporting particulars) that (i) the Contractor cannot readily obtain the <u>Goods</u> required for the <u>Variation</u>, (ii) it will reduce the safety or suitability of the <u>Works</u>, or (iii) it will have an adverse impact on the achievement of the <u>Schedule of Guarantees</u>. Upon receiving this notice, the Engineer shall cancel, confirm or vary the instruction.

13.2 Value Engineering

The Contractor may, at any time, submit to the Engineer a written proposal which (in the Contractor's opinion) will, if adopted, (i) accelerate completion, (ii) reduce the cost to the Employer of executing, maintaining or operating the <u>Works</u>, (iii) improve the efficiency or value to the Employer of the completed <u>Works</u>, or (iv) otherwise be of benefit to the Employer.

The proposal shall be prepared at the cost of the Contractor and shall include the items listed in <u>Sub-Clause 13.3</u> [*Variation Procedure*].

13.3 Variation Procedure

If the Engineer requests a proposal, prior to instructing a <u>Variation</u>, the Contractor shall respond in writing as soon as practicable, either by giving reasons why he cannot comply (if this is the case) or by submitting:

- (a) a description of the proposed design and/or work to be performed and a programme for its execution,
- (b) the Contractor's proposal for any necessary modifications to the programme according to Sub-Clause 8.3 [Programme] and to the Time for Completion, and



(c) the Contractor's proposal for adjustment to the Contract Price.

The Engineer shall, as soon as practicable after receiving such proposal (under <u>Sub-Clause 13.2</u> [*Value Engineering*] or otherwise), respond with approval, disapproval or comments. The Contractor shall not delay any work whilst awaiting a response.

Each instruction to execute a <u>Variation</u>, with any requirements for the recording of <u>Cost</u>s, shall be issued by the Engineer to the Contractor, who shall acknowledge receipt.

Upon instructing or approving a <u>Variation</u>, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine adjustments to the <u>Contract Price</u> and the <u>Schedule of Payments</u>. These adjustments shall include reasonable profit, and shall take account of the Contractor's submissions under <u>Sub-Clause 13.2</u> [*Value Engineering*] if applicable.

13.4 Payment in Applicable Currencies

If the <u>Contract</u> provides for payment of the <u>Contract Price</u> in more than one currency, then whenever an adjustment is agreed, approved or determined as stated above, the amount payable in each of the applicable currencies shall be specified. For this purpose, reference shall be made to the actual or expected currency proportions of the <u>Cost</u> of the varied work, and to the proportions of various currencies specified for payment of the <u>Contract Price</u>.

13.5 Provisional Sums

Each Provisional Sum shall only be used, in whole or in part, in accordance with the Engineer's instructions, and the <u>Contract Price</u> shall be adjusted accordingly. The total sum paid to the Contractor shall include only such amounts, for the work, supplies or services to which the <u>Provisional Sum</u> relates, as the Engineer shall have instructed. For each <u>Provisional Sum</u>, the Engineer may instruct:

- (a) work to be executed (including Plant, Materials or services to be supplied) by the Contractor and valued under Sub-Clause 13.3 [Variation Procedure]; and/or
- (b) Plant, Materials or services to be purchased by the Contractor, for which there shall be included in the Contract Price:



- (i) the actual amounts paid (or due to be paid) by the Contractor, and
- (ii) a sum for overhead charges and profit, calculated as a percentage of these actual amounts by applying the relevant percentage rate (if any) stated in the appropriate Schedule. If there is no such rate, the percentage rate stated in the <u>Appendix to Tender</u> shall be applied.

The Contractor shall, when required by the Engineer, produce quotations, invoices, vouchers and accounts or receipts in substantiation.

13.6 Daywork

For work of a minor or incidental nature, the Engineer may instruct that a <u>Variation</u> shall be executed on a <u>day</u>work basis. The work shall then be valued in accordance with the <u>day</u>work schedule included in the <u>Contract</u>, and the following procedure shall apply. If a <u>day</u>work schedule is not included in the <u>Contract</u>, this Sub-Clause shall not apply.

Before ordering <u>Goods</u> for the work, the Contractor shall submit quotations to the Engineer. When applying for payment, the Contractor shall submit invoices, vouchers and accounts or receipts for any <u>Goods</u>.

Except for any items for which the <u>day</u>work schedule specifies that payment is not due, the Contractor shall deliver each <u>day</u> to the Engineer accurate statements in duplicate which shall include the following details of the resources used in executing the previous <u>day</u>'s work:

- (a) the names, occupations and time of Contractor's Personnel,
- (b) the identification, type and time of Contractor's Equipment and Temporary Works, and
- (c) the quantities and types of <u>Plant</u> and <u>Materials</u> used.

One copy of each statement will, if correct, or when agreed, be signed by the Engineer and returned to the Contractor. The Contractor shall then submit priced statements of these resources to the Engineer, prior to their inclusion in the next <u>Statement</u> under <u>Sub-Clause 14.3</u> [*Application for <u>Interim Payment Certificates</u>].*

13.7 Adjustments for Changes in Legislation

The <u>Contract Price</u> shall be adjusted to take account of any increase or decrease in <u>Cost</u> resulting from a change in the <u>Laws</u> of the <u>Country</u> (including the introduction of new <u>Laws</u> and the repeal or modification of existing <u>Laws</u>) or in the judicial or



official governmental interpretation of such <u>Laws</u>, made after the <u>Base Date</u>, which affect the Contractor in the performance of obligations under the <u>Contract</u>.

If the Contractor suffers (or will suffer) delay and/or incurs (or will incur) additional <u>Cost</u> as a result of these changes in the <u>Laws</u> or in such interpretations, made after the <u>Base Date</u>, the Contractor shall give notice to the Engineer and shall be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- (b) payment of any such <u>Cost</u>, which shall be included in the <u>Contract Price</u>.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine these matters.

13.8 Adjustments for Changes in Cost

In this Sub-Clause, "table of adjustment data" means the completed table of adjustment data included in the <u>Appendix to Tender</u>. If there is no such table of adjustment data, this Sub-Clause shall not apply.

If this Sub-Clause applies, the amounts payable to the Contractor shall be adjusted for rises or falls in the cost of labour, <u>Goods</u> and other inputs to the <u>Works</u>, by the addition or deduction of the amounts determined by the formulae prescribed in this Sub-Clause. To the extent that full compensation for any rise or fall in <u>Cost</u>s is not covered by the provisions of this or other Clauses, the <u>Accepted Contract Amount</u> shall be deemed to have included amounts to cover the contingency of other rises and falls in costs.

The adjustment to be applied to the amount otherwise payable to the Contractor, as valued in accordance with the appropriate Schedule and certified in <u>Payment</u>. <u>Certificate</u>s, shall be determined from formulae for each of the currencies in which the <u>Contract</u> Price is payable. No adjustment is to be applied to work valued on the basis of <u>Cost</u> or current prices. The formulae shall be of the following general type:

where:



"**P**n" is the adjustment multiplier to be applied to the estimated contract value in the relevant currency of the work carried out in period "n", this period being a month unless otherwise stated in the <u>Appendix to Tender</u>;

"a" is a fixed coefficient, stated in the relevant table of adjustment data, representing the non-adjustable portion in contractual payments;

"**b**", "**c**", "**d**", ... are coefficients representing the estimated proportion of each cost element related to the execution of the <u>Works</u>, as stated in the relevant table of adjustment data; such tabulated cost elements may be indicative of resources such as labour, equipment and materials;

"Ln", "En", "Mn", ... are the current cost indices or reference prices for period "n", expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 49 <u>days</u> prior to the last <u>day</u> of the period (to which the particular <u>Payment Certificate</u> relates); and

"Lo", "Eo", "Mo", ... are the base cost indices or reference prices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the <u>Base Date</u>.

The cost indices or reference prices stated in the table of adjustment data shall be used. If their source is in doubt, it shall be determined by the Engineer. For this purpose, reference shall be made to the values of the indices at stated dates (quoted in the fourth and fifth columns respectively of the table) for the purposes of clarification of the source; although these dates (and thus these values) may not correspond to the base cost indices.

In cases where the "currency of index" (stated in the table) is not the relevant currency of payment, each index shall be converted into the relevant currency of payment at the selling rate, established by the central bank of the <u>Country</u>, of this relevant currency on the above date for which the index is required to be applicable.

Until such time as each current cost index is available, the Engineer shall determine a provisional index for the issue of Interim <u>Interim Payment Certificate</u>s. When a current cost index is available, the adjustment shall be recalculated accordingly.

If the Contractor fails to complete the <u>Works</u> within the <u>Time for Completion</u>, adjustment of prices thereafter shall be made using either (i) each index or price applicable on the date 49 <u>days</u> prior to the expiry of the <u>Time for Completion</u> of the <u>Works</u>, or (ii) the current index or price: whichever is more favourable to the Employer.



The weightings (coefficients) for each of the factors of cost stated in the table(s) of adjustment data shall only be adjusted if they have been rendered unreasonable, unbalanced or inapplicable, as a result of <u>Variation</u>s.



14 Contract Price and Payment

14.1 The Contract Price

Unless otherwise stated in the Particular Conditions:

- (a) the Contract Price shall be the lump sum Accepted Contract Amount and be subject to adjustments in accordance with the Contract;
- (b) the Contractor shall pay all taxes, duties and fees required to be paid by him under the Contract, and the Contract Price shall not be adjusted for any of these costs, except as stated in Sub-Clause 13.7 [Adjustments for Changes in Legislation];
- (c) any quantities which may be set out in a Schedule are estimated quantities and are not to be taken as the actual and correct quantities of the Works which the Contractor is required to execute; and
- (d) any quantities or price data which may be set out in a Schedule shall be used for the purposes stated in the Schedule and may be inapplicable for other purposes.

However, if any part of the <u>Works</u> is to be paid according to quantity supplied or work done, the provisions for measurement and evaluation shall be as stated in the Particular Conditions. The <u>Contract Price</u> shall be determined accordingly, subject to adjustments in accordance with the <u>Contract</u>.

14.2 Advance Payment

The Employer shall make an advance payment, as an interest-free loan for mobilisation and design, when the Contractor submits a guarantee in accordance with this Sub-Clause. The total advance payment, the number and timing of instalments (if more than one), and the applicable currencies and proportions, shall be as stated in the <u>Appendix to Tender</u>.

Unless and until the Employer receives this guarantee, or if the total advance payment is not stated in the <u>Appendix to Tender</u>, this Sub-Clause shall not apply.

The Engineer shall issue an <u>Interim Payment Certificate</u> for the first instalment after receiving a <u>Statement</u> (under <u>Sub-Clause 14.3</u> [*Application for <u>Interim Payment</u> <u>Certificates</u>]) and after the Employer receives (i) the <u>Performance Security</u> in*



accordance with <u>Sub-Clause 4.2</u> [*Performance Security*] and (ii) a guarantee in amounts and currencies equal to the advance payment. This guarantee shall be issued by an entity and from within a country (or other jurisdiction) approved by the Employer, and shall be in the form annexed to the Particular Conditions or in another form approved by the Employer.

The Contractor shall ensure that the guarantee is valid and enforceable until the advance payment has been repaid, but its amount may be progressively reduced by the amount repaid by the Contractor as indicated in the <u>Payment Certificates</u>. If the terms of the guarantee specify its expiry date, and the advance payment has not been repaid by the date 28 <u>days</u> prior to the expiry date, the Contractor shall extend the validity of the guarantee until the advance payment has been repaid.

The advance payment shall be repaid through percentage deductions in <u>Payment</u> <u>Certificates</u>. Unless other percentages are stated in the <u>Appendix to Tender</u>:

- (a) deductions shall commence in the Payment Certificate in which the total of all certified interim payments (excluding the advance payment and deductions and repayments of retention) exceeds ten per cent (10%) of the Accepted Contract Amount less Provisional Sums; and
- (b) deductions shall be made at the amortisation rate of one quarter (25%) of the amount of each Payment Certificate (excluding the advance payment and deductions and repayments of retention) in the currencies and proportions of the advance payment, until such time as the advance payment has been repaid.

If the advance payment has not been repaid prior to the issue of the <u>Taking-Over</u> <u>Certificate</u> for the <u>Works</u> or prior to termination under <u>Clause 15</u> [*Termination by Employer*], <u>Clause 16</u> [*Suspension and Termination by Contractor*] or <u>Clause 19</u> [*Force Majeure*] (as the case may be), the whole of the balance then outstanding shall immediately become due and payable by the Contractor to the Employer.

14.3 Application for Interim Payment Certificates

The Contractor shall submit a <u>Statement</u> in six copies to the Engineer after the end of the period of payment stated in the <u>Contract</u> (if not stated, after the end of each month), in a form approved by the Engineer, showing in detail the amounts to which the Contractor considers himself to be entitled, together with supporting documents which shall include the relevant report on progress in accordance with <u>Sub-Clause 4.21</u>

[Progress Reports].



The <u>Statement</u> shall include the following items, as applicable, which shall be expressed in the various currencies in which the <u>Contract Price</u> is payable, in the sequence listed:

- (a) the estimated contract value of the Works executed and the Contractor's Documents produced up to the end of the month (including Variations but excluding items described in sub-paragraphs (b) to (g) below);
- (b) any amounts to be added and deducted for changes in legislation and changes in cost, in accordance with Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost];
- (c) any amount to be deducted for retention, calculated by applying the percentage of retention stated in the Appendix to Tender to the total of the above amounts, until the amount so retained by the Employer reaches the limit of Retention Money (if any) stated in the Appendix to Tender;
- (d) any amounts to be added and deducted for the advance payment and repayments in accordance with Sub-Clause 14.2 [Advance Payment];
- (e) any amounts to be added and deducted for Plant and Materials in accordance with Sub-Clause 14.5 [Plant and Materials intended for the Works];
- (f) any other additions or deductions which may have become due under the Contract or otherwise, including those under Clause~20 [Claims, Disputes and Arbitration]; and
- (g) the deduction of amounts certified in all previous Payment Certificates.

14.4 Schedule of Payments

If the <u>Contract</u> includes a <u>Schedule of Payments</u> specifying the instalments in which the <u>Contract</u> Price will be paid, then, unless otherwise stated in this Schedule:

- (a) the instalments quoted in the Schedule of Payments shall be the estimated contract values for the purposes of sub-paragraph (a) of Sub-Sub-Clause 14.3 [Application for Interim Payment Certificates];
- (b) Sub-Clause 14.4 [Plant and Materials intended for the Works] shall not apply; and
- (c) if these instalments are not defined by reference to the actual progress achieved in executing the Works, and if actual progress is found to be less than that on which the Schedule of Payments was based, then the Engineer may proceed in



accordance with $Sub-Clause \ 3.5$ [Determinations] to agree or determine revised instalments, which shall take account of the extent to which progress is less than that on which the instalments were previously based.

If the <u>Contract</u> does not include a <u>Schedule of Payments</u>, the Contractor shall submit non-binding estimates of the payments which he expects to become due during each quarterly period. The first estimate shall be submitted within 42 <u>days</u> after the <u>Commencement Date</u>. Revised estimates shall be submitted at quarterly intervals, until the <u>Taking-Over Certificate</u> has been issued for the <u>Works</u>.

14.5 Plant and Materials intended for the Works

If this Sub-Clause applies, <u>Interim Payment Certificates</u> shall include, under sub-paragraph (e) of <u>Sub-Clause 14.3</u>, (i) an amount for <u>Plant</u> and <u>Materials</u> which have been sent to the <u>Site</u> for incorporation in the <u>Permanent Works</u>, and (ii) a reduction when the contract value of such <u>Plant</u> and <u>Materials</u> is included as part of the <u>Permanent Works</u> under sub-paragraph (a) of <u>Sub-Clause 14.3</u> [*Application for* <u>Interim Payment Certificates</u>].

If the lists referred to in sub-paragraphs (b)(i) or (c)(i) below are not included in the Appendix to <u>Tender</u>, this Sub-Clause shall not apply.

The Engineer shall determine and certify each addition if the following conditions are satisfied:

- (a) the Contractor has:
- (i) kept satisfactory records (including the orders, receipts, <u>Cost</u>s and use of <u>Plant</u> and <u>Materials</u>) which are available for inspection, and
- (ii) submitted a <u>Statement</u> of the <u>Cost</u> of acquiring and delivering the <u>Plant</u> and <u>Materials</u> to the <u>Site</u>, supported by satisfactory evidence; and either:
- (b) the relevant Plant and Materials:



- (i) are those listed in the Appendix to Tender for payment when shipped,
- (ii) have been shipped to the <u>Country</u>, en route to the <u>Site</u>, in accordance with the <u>Contract</u>; and
- (iii) are described in a clean shipped bill of lading or other evidence of shipment, which has been submitted to the Engineer together with evidence of payment of freight and insurance, any other documents reasonably required, and a bank guarantee in a form and issued by an entity approved by the Employer in amounts and currencies equal to the amount due under this Sub-Clause: this guarantee may be in a similar form to the form referred to in <u>Sub-Clause 14.2</u> [Advance Payment] and shall be valid until the <u>Plant</u> and <u>Materials</u> are properly stored on <u>Site</u> and protected against loss, damage or deterioration; or

(c) the relevant <u>Plant</u> and <u>Materials</u>:

- (i) are those listed in the <u>Appendix to Tender</u> for payment when delivered to the <u>Site</u>, and
- (ii) have been delivered to and are properly stored on the <u>Site</u>, are protected against loss, damage or deterioration, and appear to be in accordance with the <u>Contract</u>.

The additional amount to be certified shall be the equivalent of eighty percent of the Engineer's determination of the cost of the <u>Plant</u> and <u>Materials</u> (including delivery to <u>Site</u>), taking account of the documents mentioned in this Sub-Clause and of the contract value of the <u>Plant</u> and <u>Materials</u>.

The currencies for this additional amount shall be the same as those in which payment will become due when the contract value is included under sub-paragraph (a) of <u>Sub-Clause 14.3</u> [*Application for <u>Interim Payment Certificate</u>s]. At that time, the <u>Payment Certificate</u> shall include the applicable reduction which shall be equivalent to, and in the same currencies and proportions as, this additional amount for the relevant <u>Plant</u> and <u>Materials</u>.*

14.6 Issue of Interim Payment Certificates

No amount will be certified or paid until the Employer has received and approved the <u>Performance Security</u>. Thereafter, the Engineer shall, within 28 <u>days</u> after receiving a <u>Statement</u> and supporting documents, issue to the Employer an <u>Interim Payment</u> <u>Certificate</u> which shall state the amount which the Engineer fairly determines to be due, with supporting particulars.

However, prior to issuing the <u>Taking-Over Certificate</u> for the <u>Works</u>, the Engineer shall not be bound to issue an <u>Interim Payment Certificate</u> in an amount which would (after retention and other deductions) be less than the minimum amount of



<u>Interim Payment Certificates</u> (if any) stated in the <u>Appendix to Tender</u>. In this event, the Engineer shall give notice to the Contractor accordingly.

An <u>Interim Payment Certificate</u> shall not be withheld for any other reason, although:

- (a) if any thing supplied or work done by the Contractor is not in accordance with the Contract, the cost of rectification or replacement may be withheld until rectification or replacement has been completed; and/or
- (b) if the Contractor was or is failing to perform any work or obligation in accordance with the Contract, and had been so notified by the Engineer, the value of this work or obligation may be withheld until the work or obligation has been performed.

The Engineer may in any <u>Payment Certificate</u> make any correction or modification that should properly be made to any previous <u>Payment Certificate</u>. A <u>Payment</u> <u>Certificate</u> shall not be deemed to indicate the Engineer's acceptance, approval, consent or satisfaction.

14.7 Payment

The Employer shall pay to the Contractor:

- (a) the first instalment of the advance payment within 42 days after issuing the Letter of Acceptance or within 21 days after receiving the documents in accordance with Sub-Clause 4.2 [Performance Security] and Sub-Clause 14.2 [Advance Payment], whichever is later;
- (b) the amount certified in each Interim Payment Certificate within 56 days after the Engineer receives the Statement and supporting documents; and
- (c) the amount certified in the Final Payment Certificate within 56 days after the Employer receives this Payment Certificate.

Payment of the amount due in each currency shall be made into the bank account, nominated by the Contractor, in the payment country (for this currency) specified in the <u>Contract</u>.

14.8 Delayed Payment

If the Contractor does not receive payment in accordance with <u>Sub-Clause 14.7</u> [*Payment*], the Contractor shall be entitled to receive financing charges compounded monthly on the amount unpaid during the period of delay. This period shall be deemed to commence on the date for payment specified in <u>Sub-Clause 14.7</u>



[*Payment*], irrespective (in the case of its sub-paragraph (b)) of the date on which any <u>Interim Payment Certificate</u> is issued.

Unless otherwise stated in the Particular Conditions, these financing charges shall be calculated at the annual rate of three percentage points above the discount rate of the central bank in the country of the currency of payment, and shall be paid in such currency.

The Contractor shall be entitled to this payment without formal notice or certification, and without prejudice to any other right or remedy.

14.9 Payment of <u>Retention Money</u>

When the <u>Taking-Over Certificate</u> has been issued for the <u>Works</u>, and the <u>Works</u> have passed all specified tests (including the <u>Tests after Completion</u>, if any), the first half of the <u>Retention Money</u> shall be certified by the Engineer for payment to the Contractor. If a <u>Taking-Over Certificate</u> is issued for a <u>Section</u>, the relevant percentage of the first half of the <u>Retention Money</u> shall be certified and paid when the <u>Section</u> passes all tests.

Promptly after the latest of the expiry dates of the <u>Defects Notification Period</u>s, the outstanding balance of the <u>Retention Money</u> shall be certified by the Engineer for payment to the Contractor. If a <u>Taking-Over Certificate</u> was issued for a <u>Section</u>, the relevant percentage of the second half of the <u>Retention Money</u> shall be certified and paid promptly after the expiry date of the <u>Defects Notification Period</u> for the <u>Section</u>.

However, if any work remains to be executed under <u>Clause 11</u> [*Defects Liability*] or <u>Clause 12</u> [*Tests after Completion*], the Engineer shall be entitled to withhold certification of the estimated cost of this work until it has been executed.

The relevant percentage for each <u>Section</u> shall be the percentage value of the <u>Section</u> as stated in the <u>Appendix to Tender</u>. If the percentage value of a <u>Section</u> is not stated in the <u>Appendix to Tender</u>, no percentage of either half of the <u>Retention</u> <u>Money</u> shall be released under this Sub-Clause in respect of such <u>Section</u>.

14.10 Statement at Completion

Within 84 <u>day</u>s after receiving the <u>Taking-Over Certificate</u> for the <u>Works</u>, the Contractor shall submit to the Engineer six copies of a <u>Statement</u> at completion with supporting documents, in accordance with <u>Sub-Clause 14.3</u> [*Application for <u>Interim</u>* <u>Payment Certificate</u>s], showing:

(a) the value of all work done in accordance with the Contract up to the date stated in the Taking-Over Certificate for the Works,



- (b) any further sums which the Contractor considers to be due, and
- (c) an estimate of any other amounts which the Contractor considers will become due to him under the Contract. Estimated amounts shall be shown separately in this Statement at completion.

The Engineer shall then certify in accordance with <u>Sub-Clause 14.6</u> [*Issue of* <u>*Interim Payment Certificates*].</u>

14.11 Application for Final Payment Certificate

Within 56 <u>day</u>s after receiving the <u>Performance Certificate</u>, the Contractor shall submit, to the Engineer, six copies of a draft final statement with supporting documents showing in detail in a form approved by the Engineer:

- (a) the value of all work done in accordance with the $\ensuremath{\operatorname{Contract}}$, and
- (b) any further sums which the Contractor considers to be due to him under the Contract or otherwise.

If the Engineer disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Engineer may reasonably require and shall make such changes in the draft as may be agreed between them. The Contractor shall then prepare and submit to the Engineer the final statement as agreed. This agreed statement is referred to in these Conditions as the "Final <u>Statement</u>".

However if, following discussions between the Engineer and the Contractor and any changes to the draft final statement which are agreed, it becomes evident that a dispute exists, the Engineer shall deliver to the Employer (with a copy to the Contractor) an <u>Interim Payment Certificate</u> for the agreed parts of the draft final statement. Thereafter, if the dispute is finally resolved under <u>Sub-Clause 20.4</u> [*Obtaining Dispute Adjudication Board's Decision*] or <u>Sub-Clause 20.5</u> [*Amicable Settlement*], the Contractor shall then prepare and submit to the Employer (with a copy to the Engineer) a <u>Final Statement</u>.

14.12 Discharge

When submitting the <u>Final Statement</u>, the Contractor shall submit a written discharge which confirms that the total of the <u>Final Statement</u> represents full and final settlement of all moneys due to the Contractor under or in connection with the <u>Contract</u>. This discharge may state that it becomes effective when the Contractor has received the <u>Performance Security</u> and the outstanding balance of this total, in which event the discharge shall be effective on such date.



14.13 Issue of Final Payment Certificate

Within 28 <u>day</u>s after receiving the <u>Final Statement</u> and written discharge in accordance with <u>Sub-Clause 14.11</u> [*Application for <u>Final Payment Certificate</u>*] and <u>Sub-Clause 14.12</u> [*Discharge*], the Engineer shall issue, to the Employer, the <u>Final Payment Certificate</u> which shall state:

- (a) the amount which is finally due, and
- (b) after giving credit to the Employer for all amounts previously paid by the Employer and for all sums to which the Employer is entitled, the balance (if any) due from the Employer to the Contractor or from the Contractor to the Employer, as the case may be.

If the Contractor has not applied for a <u>Final Payment Certificate</u> in accordance with <u>Sub-Clause 14.11</u> [*Application for <u>Final Payment Certificate</u>*] and <u>Sub-Clause 14.12</u> [*Discharge*], the Engineer shall request the Contractor to do so. If the Contractor fails to submit an application within a period of 28 <u>days</u>, the Engineer shall issue the <u>Final Payment Certificate</u> for such amount as he fairly determines to be due.

14.14 Cessation of Employer's Liability

The Employer shall not be liable to the Contractor for any matter or thing under or in connection with the <u>Contract</u> or execution of the <u>Works</u>, except to the extent that the Contractor shall have included an amount expressly for it:

- (a) in the Final Statement and also
- (b) (except for matters or things arising after the issue of the Taking-Over Certificate for the Works) in the Statement at completion described in Sub-Clause 14.10 [Statement at Completion].

However, this Sub-Clause shall not limit the Employer's liability under his indemnification obligations, or the Employer's liability in any case of fraud, deliberate default or reckless misconduct by the Employer.

14.15 Currencies of Payment

The Contract Price shall be paid in the currency or currencies named in the Appendix to Tender. Unless otherwise stated in the Particular Conditions, if more than one currency is so named, payments shall be made as follows:



- (a) if the Accepted Contract Amount was expressed in Local Currency only:
- (i) the proportions or amounts of the Local and Foreign Currencies, and the fixed rates of exchange to be used for calculating the payments, shall be as stated in the Appendix to Tender, except as otherwise agreed by both Parties;
- (ii) payments and deductions under Sub-Clause 13.5 [Provisional Sums] and Sub-Clause 13.7 [Adjustments for Changes in Legislation] shall be made in the applicable currencies and proportions; and
- (iii) other payments and deductions under sub-paragraphs (a) to (d) of Sub-Clause 14.3 [Application for Interim Payment Certificates] shall be made in the currencies and proportions specified in sub-paragraph (a)(i) above;
- (b) payment of the damages specified in the Appendix to Tender shall be made in
- (i) the proportions or amounts of the Local and Foreign Currencies, and the fixed rates of exchange to be used for calculating the payments, shall be as stated in the Appendix to Tender, except as otherwise agreed by both Parties;
- (ii) payments and deductions under Sub-Clause 13.5 [Provisional Sums] and Sub-Clause 13.7 [Adjustments for Changes in Legislation] shall be made in the applicable currencies and proportions; and
- (iii) other payments and deductions under sub-paragraphs (a) to (d) of Sub-Clause 14.3 [Application for Interim Payment Certificates] shall be made in the currencies and proportions specified in sub-paragraph (a)(i) above;

the currencies and proportions specified in the Appendix to Tender;

- (c) other payments to the Employer by the Contractor shall be made in the currency in which the sum was expended by the Employer, or in such currency as may be agreed by both Parties;
- (d) if any amount payable by the Contractor to the Employer in a particular currency exceeds the sum payable by the Employer to the Contractor in that currency, the Employer may recover the balance of this amount from the sums otherwise payable to the Contractor in other currencies; and
- (e) if no rates of exchange are stated in the Appendix to Tender, they shall be those prevailing on the Base Date and determined by the central bank of the Country.



15 Termination by Employer

15.1 Notice to Correct

If the Contractor fails to carry out any obligation under the <u>Contract</u>, the Engineer may by notice require the Contractor to make good the failure and to remedy it within a specified reasonable time.

15.2 Termination by Employer

The Employer shall be entitled to terminate the <u>Contract</u> if the Contractor:

- (a) fails to comply with Sub-Clause 4.2 [Performance Security] or with a notice under Sub-Clause 15.1 [Notice to Correct],
- (b) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract,
- (c) without reasonable excuse fails:
- (i) to proceed with the ${\rm Works}$ in accordance with ${\rm Clause}~8$ [Commencement, Delays and Suspension], or
- (ii) to comply with a notice issued under Sub-Clause 7.5 [Rejection] or Sub-Clause 7.6 [Remedial Work], within 28 days after receiving it,
- (d) subcontracts the whole of the ${\tt Works}$ or assigns the ${\tt Contract}$ without the required agreement,
- (e) becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events, or
- (f) gives or offers to give (directly or indirectly) to any person any bribe, gift, gratuity, commission or other thing of value, as an inducement or reward:



- (i) for doing or forbearing to do any action in relation to the Contract, or
- (ii) for showing or forbearing to show favour or disfavour to any person in relation to the <u>Contract</u>,

or if any of the <u>Contractor's Personnel</u>, agents or <u>Subcontractor</u>s gives or offers to give (directly or indirectly) to any person any such inducement or reward as is described in this sub-paragraph (f). However, lawful inducements and rewards to <u>Contractor's Personnel</u> shall not entitle termination.

In any of these events or circumstances, the Employer may, upon giving 14 <u>day</u>s' notice to the Contractor, terminate the <u>Contract</u> and expel the Contractor from the <u>Site</u>. However, in the case of sub-paragraph (e) or (f), the Employer may by notice terminate the <u>Contract</u> immediately.

The Employer's election to terminate the <u>Contract</u> shall not prejudice any other rights of the Employer, under the <u>Contract</u> or otherwise.

The Contractor shall then leave the <u>Site</u> and deliver any required <u>Goods</u>, all <u>Contractor's Documents</u>, and other design documents made by or for him, to the Engineer. However, the Contractor shall use his best efforts to comply immediately with any reasonable instructions included in the notice (i) for the assignment of any subcontract, and (ii) for the protection of life or property or for the safety of the <u>Works</u>.

After termination, the Employer may complete the <u>Works</u> and/or arrange for any other entities to do so. The Employer and these entities may then use any <u>Goods</u>, Contractor's Documents and other design documents made by or on behalf of the Contractor.

The Employer shall then give notice that the <u>Contractor's Equipment</u> and <u>Temporary</u> <u>Works</u> will be released to the Contractor at or near the <u>Site</u>. The Contractor shall promptly arrange their removal, at the risk and cost of the Contractor. However, if by this time the Contractor has failed to make a payment due to the Employer, these items may be sold by the Employer in order to recover this payment. Any balance of the proceeds shall then be paid to the Contractor.

15.3 Valuation at Date of Termination

As soon as practicable after a notice of termination under <u>Sub-Clause 15.2</u> [*Termination by Employer*] has taken effect, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine the value of the <u>Works</u>, <u>Goods</u> and <u>Contractor's Documents</u>, and any other sums due to the Contractor for work executed in accordance with the <u>Contract</u>.



15.4 Payment after Termination

After a notice of termination under <u>Sub-Clause 15.2</u> [*Termination by Employer*] has taken effect, the Employer may:

- (a) proceed in accordance with Sub-Clause 2.5 [Employer's Claims],
- (b) withhold further payments to the Contractor until the costs of design, execution, completion and remedying of any defects, damages for delay in completion (if any), and all other costs incurred by the Employer, have been established, and/or
- (c) recover from the Contractor any losses and damages incurred by the Employer and any extra costs of completing the Works, after allowing for any sum due to the Contractor under Sub-Clause 15.3 [Valuation at Date of Termination]. After recovering any such losses, damages and extra costs, the Employer shall pay any balance to the Contractor.

15.5 Employer's Entitlement to Termination

The Employer shall be entitled to terminate the <u>Contract</u>, at any time for the Employer's convenience, by giving notice of such termination to the Contractor. The termination shall take effect 28 <u>days</u> after the later of the dates on which the Contractor receives this notice or the Employer returns the <u>Performance Security</u>. The Employer shall not terminate the <u>Contract</u> under this Sub-Clause in order to execute the <u>Works</u> himself or to arrange for the <u>Works</u> to be executed by another contractor.

After this termination, the Contractor shall proceed in accordance with <u>Sub-Clause 16.3</u> [*Cessation of Work and Removal of <u>Contractor's Equipment*] and shall be paid in accordance with <u>Sub-Clause 19.6</u> [*Optional Termination, Payment and Release*].</u>



16 Suspension and Termination by Contractor

16.1 Contractor's Entitlement to Suspend Work

If the Engineer fails to certify in accordance with <u>Sub-Clause 14.6</u> [*Issue of <u>Interim</u> <u>Payment Certificate</u>s*] or the Employer fails to comply with <u>Sub-Clause 2.4</u> [*Employer's Financial Arrangements*] or <u>Sub-Clause 14.7</u> [*Payment*], the Contractor may, after giving not less than 21 <u>day</u>s' notice to the Employer, suspend work (or reduce the rate of work) unless and until the Contractor has received the <u>Payment Certificate</u>, reasonable evidence or payment, as the case may be and as described in the notice.

The Contractor's action shall not prejudice his entitlements to financing charges under <u>Sub-Clause 14.8</u> [*Delayed Payment*] and to termination under <u>Sub-Clause 16.2</u> [*Termination by Contractor*].

If the Contractor subsequently receives such <u>Payment Certificate</u>, evidence or payment (as described in the relevant Sub-Clause and in the above notice) before giving a notice of termination, the Contractor shall resume normal working as soon as is reasonably practicable.

If the Contractor suffers delay and/or incurs <u>Cost</u> as a result of suspending work (or reducing the rate of work) in accordance with this Sub-Clause, the Contractor shall give notice to the Engineer and shall be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- (b) payment of any such Cost plus reasonable profit, which shall be included in the Contract Price.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine these matters.

16.2 Termination by Contractor

The Contractor shall be entitled to terminate the <u>Contract</u> if:



- (a) the Contractor does not receive the reasonable evidence within 42 days after giving notice under Sub-Clause 16.1 [Contractor's Entitlement to Suspend Work] in respect of a failure to comply with Sub-Clause 2.4 [Employer's Financial Arrangements],
- (b) the Engineer fails, within 56 days after receiving a Statement and supporting documents, to issue the relevant Payment Certificate,
- (c) the Contractor does not receive the amount due under an Interim Interim Payment Certificate within 42 days after the expiry of the time stated in Sub-Clause 14.7 [Payment] within which payment is to be made (except for deductions in accordance with Sub-Clause 2.5 [Employer's Claims]),
- (d) the Employer substantially fails to perform his obligations under the Contract,
- (e) the Employer fails to comply with Sub-Clause 1.6 [Contract Agreement] or Sub-Clause 1.7 [Assignment],
- (f) a prolonged suspension affects the whole of the ${\tt Works}$ as described in ${\tt Sub-Clause}~8.\,11$ [Prolonged Suspension], or
- (g) the Employer becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events.

In any of these events or circumstances, the Contractor may, upon giving 14 <u>day</u>s' notice to the Employer, terminate the <u>Contract</u>. However, in the case of sub-paragraph (f) or (g), the Contractor may by notice terminate the <u>Contract</u> immediately.

The Contractor's election to terminate the <u>Contract</u> shall not prejudice any other rights of the Contractor, under the <u>Contract</u> or otherwise.

16.3 Cessation of Work and Removal of Contractor's Equipment

After a notice of termination under <u>Sub-Clause 15.5</u> [*Employer's Entitlement to Termination*], <u>Sub-Clause 16.2</u> [*Termination by Contractor*] or <u>Sub-Clause 19.6</u> [*Optional Termination, Payment and Release*] has taken effect, the Contractor shall promptly:

(a) cease all further work, except for such work as may have been instructed by the Engineer for the protection of life or property or for the safety of the Works,



- (b) hand over Contractor's Documents, Plant, Materials and other work, for which the Contractor has received payment, and
- (c) remove all other ${\rm Goods}$ from the ${\rm Site},$ except as necessary for safety, and leave the ${\rm Site}.$

16.4 Payment on Termination

After a notice of termination under <u>Sub-Clause 16.2</u> [*Termination by Contractor*] has taken effect, the Employer shall promptly:

- (a) return the Performance Security to the Contractor,
- (b) pay the Contractor in accordance with Sub-Clause 19. 6 [Optional Termination, Payment and Release], and
- (c) pay to the Contractor the amount of any loss of profit or other loss or damage sustained by the Contractor as a result of this termination.



17 Risk and Responsibility

17.1 Indemnities

The Contractor shall indemnify and hold harmless the Employer, the <u>Employer's</u> <u>Personnel</u>, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of:

- (a) bodily injury, sickness, disease or death, of any person whatsoever arising out of or in the course of or by reason of the design, execution and completion of the Works and the remedying of any defects, unless attributable to any negligence, wilful act or breach of the Contract by the Employer, the Employer's Personnel, or any of their respective agents, and
- (b) damage to or loss of any property, real or personal (other than the ${\rm Works}$), to the extent that such damage or loss:
- (i) arises out of or in the course of or by reason of the design, execution and completion of the <u>Works</u> and the remedying of any defects, and
- (ii) is attributable to any negligence, wilful act or breach of the <u>Contract</u> by the Contractor, the <u>Contractor's Personnel</u>, their respective agents, or anyone directly or indirectly employed by any of them.

The Employer shall indemnify and hold harmless the Contractor, the <u>Contractor's</u> <u>Personnel</u>, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of (1) bodily injury, sickness, disease or death, which is attributable to any negligence, wilful act or breach of the <u>Contract</u> by the Employer, the <u>Employer's Personnel</u>, or any of their respective agents, and (2) the matters for which liability may be excluded from insurance cover, as described in sub-paragraphs (d)(i), (ii) and (iii) of <u>Sub-Clause 18.3</u> [*Insurance Against Injury to Persons and Damage to Property*].

17.2 Contractor's Care of the Works

The Contractor shall take full responsibility for the care of the <u>Works</u> and <u>Goods</u> from the <u>Commencement Date</u> until the <u>Taking-Over Certificate</u> is issued (or is deemed to be issued under <u>Sub-Clause 10.1</u> [*Taking Over of the <u>Works</u> and <u>Sections</u>]) for the <u>Works</u>, when responsibility for the care of the <u>Works</u> shall pass to the Employer. If a <u>Taking-Over Certificate</u> is issued (or is so deemed to be issued) for any <u>Section</u>*



or part of the <u>Works</u>, responsibility for the care of the <u>Section</u> or part shall then pass to the Employer.

After responsibility has accordingly passed to the Employer, the Contractor shall take responsibility for the care of any work which is outstanding on the date stated in a <u>Taking-Over Certificate</u>, until this outstanding work has been completed.

If any loss or damage happens to the <u>Works</u>, <u>Goods</u> or <u>Contractor's Documents</u> during the period when the Contractor is responsible for their care, from any cause not listed in <u>Sub-Clause 17.3</u> [*Employer's Risks*], the Contractor shall rectify the loss or damage at the Contractor's risk and cost, so that the <u>Works</u>, <u>Goods</u> and <u>Contractor's Documents</u> conform with the <u>Contract</u>.

The Contractor shall be liable for any loss or damage caused by any actions performed by the Contractor after a <u>Taking-Over Certificate</u> has been issued. The Contractor shall also be liable for any loss or damage which occurs after a <u>Taking-Over Certificate</u> has been issued and which arose from a previous event for which the Contractor was liable.

17.3 Employer's Risks

The risks referred to in <u>Sub-Clause 17.4</u> below are:

- (a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
- (b) rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war, within the Country,
- (c) riot, commotion or disorder within the Country by persons other than the Contractor's Personnel and other employees of the Contractor and Subcontractors,
- (d) munitions of war, explosive materials, ionising radiation or contamination by radio-activity, within the Country, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity,
- (e) pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds,
- (f) use or occupation by the Employer of any part of the Permanent Works, except as may be specified in the Contract,



- (g) design of any part of the Works by the Employer's Personnel or by others for whom the Employer is responsible, if any, and
- (h) any operation of the forces of nature which is <code>Unforeseeable</code> or against which an experienced contractor could not reasonably have been expected to have taken adequate preventative precautions.

17.4 Consequences of Employer's Risks

If and to the extent that any of the risks listed in <u>Sub-Clause 17.3</u> above results in loss or damage to the <u>Works</u>, <u>Goods</u> or <u>Contractor's Documents</u>, the Contractor shall promptly give notice to the Engineer and shall rectify this loss or damage to the extent required by the Engineer.

If the Contractor suffers delay and/or incurs <u>Cost</u> from rectifying this loss or damage, the Contractor shall give a further notice to the Engineer and shall be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- (b) payment of any such Cost, which shall be included in the Contract Price. In the case of sub-paragraphs (f) and (g) of Sub-Clause 17.3 [Employer's Risks], reasonable profit on the Cost shall also be included.

After receiving this further notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine these matters.

17.5 Intellectual and Industrial Property Rights

In this Sub-Clause, "infringement" means an infringement (or alleged infringement) of any patent, registered design, copyright, trade mark, trade name, trade secret or other intellectual or industrial property right relating to the <u>Works</u>; and "claim" means a claim (or proceedings pursuing a claim) alleging an infringement.

Whenever a <u>Party</u> does not give notice to the other <u>Party</u> of any claim within 28 <u>days</u> of receiving the claim, the first <u>Party</u> shall be deemed to have waived any right to indemnity under this Sub-Clause.

The Employer shall indemnify and hold the Contractor harmless against and from any claim alleging an infringement which is or was:

(a) an unavoidable result of the Contractor's compliance with the Employer's Requirements, or



- (i) for a purpose other than that indicated by, or reasonably to be inferred from, the <u>Contract</u>, or
- (ii) in conjunction with any thing not supplied by the Contractor, unless such use was disclosed to the Contractor prior to the <u>Base Date</u> or is stated in the <u>Contract</u>.
- (b) a result of any <u>Works</u> being used by the Employer:

The Contractor shall indemnify and hold the Employer harmless against and from any other claim which arises out of or in relation to (i) the Contractor's design, manufacture, construction or execution of the <u>Works</u>, (ii) the use of <u>Contractor's Equipment</u>, or (iii) the proper use of the <u>Works</u>.

If a <u>Party</u> is entitled to be indemnified under this Sub-Clause, the indemnifying <u>Party</u> may (at its cost) conduct negotiations for the settlement of the claim, and any litigation or arbitration which may arise from it. The other <u>Party</u> shall, at the request and cost of the indemnifying <u>Party</u>, assist in contesting the claim. This other <u>Party</u> (and its Personnel) shall not make any admission which might be prejudicial to the indemnifying <u>Party</u>, unless the indemnifying <u>Party</u> failed to take over the conduct of any negotiations, litigation or arbitration upon being requested to do so by such other <u>Party</u>.

17.6 Limitation of Liability

Neither <u>Party</u> shall be liable to the other <u>Party</u> for loss of use of any <u>Works</u>, loss of profit, loss of any contract or for any indirect or consequential loss or damage which may be suffered by the other <u>Party</u> in connection with the <u>Contract</u>, other than under <u>Sub-Clause 16.4</u> [*Payment on Termination*] and <u>Sub-Clause 17.1</u> [*Indemnities*].

The total liability of the Contractor to the Employer, under or in connection with the <u>Contract</u> other than under <u>Sub-Clause 4.19</u> [*Electricity, Water and Gas*], <u>Sub-Clause 4.20</u> [*Employers Equipment* and Free-Issue Material], <u>Sub-Clause 17.1</u> [*Indemnities*] and <u>Sub-Clause 17.5</u> [*Intellectual and Industrial Property Rights*], shall not exceed the sum stated in the Particular Conditions or (if a sum is not so stated) the <u>Accepted Contract Amount</u>.

This Sub-Clause shall not limit liability in any case of fraud, deliberate default or reckless misconduct by the defaulting <u>Party</u>.



18 Insurance

18.1 General Requirements for Insurances

In this Clause, "insuring <u>Party</u>" means, for each type of insurance, the <u>Party</u> responsible for effecting and maintaining the insurance specified in the relevant Sub-Clause.

Wherever the Contractor is the insuring <u>Party</u>, each insurance shall be effected with insurers and in terms approved by the Employer. These terms shall be consistent with any terms agreed by both <u>Parties</u> before the date of the <u>Letter of Acceptance</u>. This agreement of terms shall take precedence over the provisions of this Clause.

Wherever the Employer is the insuring <u>Party</u>, each insurance shall be effected with insurers and in terms consistent with the details annexed to the Particular Conditions.

If a policy is required to indemnify joint insured, the cover shall apply separately to each insured as though a separate policy had been issued for each of the joint insured. If a policy indemnifies additional joint insured, namely in addition to the insured specified in this Clause, (i) the Contractor shall act under the policy on behalf of these additional joint insured except that the Employer shall act for <u>Employer's Personnel</u>, (ii) additional joint insured shall not be entitled to receive payments directly from the insurer or to have any other direct dealings with the insurer, and (iii) the insuring <u>Party</u> shall require all additional joint insured to comply with the conditions stipulated in the policy.

Each policy insuring against loss or damage shall provide for payments to be made in the currencies required to rectify the loss or damage. Payments received from insurers shall be used for the rectification of the loss or damage.

The relevant insuring <u>Party</u> shall, within the respective periods stated in the <u>Appendix to Tender</u> (calculated from the <u>Commencement Date</u>), submit to the other <u>Party</u>:

- (a) evidence that the insurances described in this Clause have been effected, and
- (b) copies of the policies for the insurances described in Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment] and Sub-Clause 18.3 [Insurance against Injury to Persons and Damage to Property].



When each premium is paid, the insuring <u>Party</u> shall submit evidence of payment to the other <u>Party</u>. Whenever evidence or policies are submitted, the insuring <u>Party</u> shall also give notice to the Engineer.

Each <u>Party</u> shall comply with the conditions stipulated in each of the insurance policies. The insuring <u>Party</u> shall keep the insurers informed of any relevant changes to the execution of the <u>Works</u> and ensure that insurance is maintained in accordance with this Clause.

Neither <u>Party</u> shall make any material alteration to the terms of any insurance without the prior approval of the other <u>Party</u>. If an insurer makes (or attempts to make) any alteration, the <u>Party</u> first notified by the insurer shall promptly give notice to the other <u>Party</u>.

If the insuring <u>Party</u> fails to effect and keep in force any of the insurances it is required to effect and maintain under the <u>Contract</u>, or fails to provide satisfactory evidence and copies of policies in accordance with this Sub-Clause, the other <u>Party</u> may (at its option and without prejudice to any other right or remedy) effect insurance for the relevant coverage and pay the premiums due. The insuring <u>Party</u> shall pay the amount of these premiums to the other <u>Party</u>, and the <u>Contract</u> Price shall be adjusted accordingly.

Nothing in this Clause limits the obligations, liabilities or responsibilities of the Contractor or the Employer, under the other terms of the <u>Contract</u> or otherwise. Any amounts not insured or not recovered from the insurers shall be borne by the Contractor and/or the Employer in accordance with these obligations, liabilities or responsibilities. However, if the insuring <u>Party</u> fails to effect and keep in force an insurance which is available and which it is required to effect and maintain under the <u>Contract</u>, and the other <u>Party</u> neither approves the omission nor effects insurance for the coverage relevant to this default, any moneys which should have been recoverable under this insurance shall be paid by the insuring <u>Party</u>.

Payments by one <u>Party</u> to the other <u>Party</u> shall be subject to <u>Sub-Clause 2.5</u> [*Employer's Claims*] or <u>Sub-Clause 20.1</u> [*Contractor's Claims*], as applicable.

18.2 Insurance for Works and Contractor's Equipment

The insuring <u>Party</u> shall insure the <u>Works</u>, <u>Plant</u>, <u>Materials</u> and <u>Contractor's</u> <u>Documents</u> for not less than the full reinstatement cost including the costs of demolition, removal of debris and professional fees and profit. This insurance shall be effective from the date by which the evidence is to be submitted under sub-paragraph (a) of <u>Sub-Clause 18.1</u> [*General Requirements for Insurances*], until the date of issue of the <u>Taking-Over Certificate</u> for the <u>Works</u>.



The insuring <u>Party</u> shall maintain this insurance to provide cover until the date of issue of the <u>Performance Certificate</u>, for loss or damage for which the Contractor is liable arising from a cause occurring prior to the issue of the <u>Taking-Over Certificate</u>, and for loss or damage caused by the Contractor in the course of any other operations (including those under <u>Clause 11</u> [*Defects Liability*] and <u>Clause 12</u> [*Tests* <u>after Completion</u>]).

The insuring <u>Party</u> shall insure the <u>Contractor's Equipment</u> for not less than the full replacement value, including delivery to <u>Site</u>. For each item of <u>Contractor's</u> <u>Equipment</u>, the insurance shall be effective while it is being transported to the <u>Site</u> and until it is no longer required as <u>Contractor's Equipment</u>.

Unless otherwise stated in the Particular Conditions, insurances under this Sub-Clause:

- (a) shall be effected and maintained by the Contractor as insuring $\ensuremath{\operatorname{Party}}$,
- (b) shall be in the joint names of the Parties, who shall be jointly entitled to receive payments from the insurers, payments being held or allocated between the Parties for the sole purpose of rectifying the loss or damage,
- (c) shall cover all loss and damage from any cause not listed in Sub-Clause 17.3 [Employer's Risks],
- (d) shall also cover loss or damage to a part of the Works which is attributable to the use or occupation by the Employer of another part of the Works, and loss or damage from the risks listed in sub-paragraphs (c), (g) and (h) of Sub-Clause 17.3 [Employer's Risks], excluding (in each case) risks which are not insurable at commercially reasonable terms, with deductibles per occurrence of not more than the amount stated in the Appendix to Tender (if an amount is not so stated, this sub-paragraph (d) shall not apply), and
- (e) may however exclude loss of, damage to, and reinstatement of:



- a part of the <u>Works</u> which is in a defective condition due to a defect in its design, <u>Materials</u> or workmanship (but cover shall include any other parts which are lost or damaged as a direct result of this defective condition and not as described in sub-paragraph (ii) below),
- (ii) a part of the <u>Works</u> which is lost or damaged in order to reinstate any other part of the <u>Works</u> if this other part is in a defective condition due to a defect in its design, <u>Materials</u> or workmanship
- (iii) a part of the <u>Works</u> which has been taken over by the Employer, except to the extent that the Contractor is liable for the loss or damage, and
- (iv) <u>Goods</u> while they are not in the <u>Country</u>, subject to <u>Sub-Clause 14.5</u> [<u>Plant</u> and <u>Materials</u> intended for the <u>Works</u>].

If, more than one <u>year</u> after the <u>Base Date</u>, the cover described in sub-paragraph (d) above ceases to be available at commercially reasonable terms, the Contractor shall (as insuring <u>Party</u>) give notice to the Employer, with supporting particulars. The Employer shall then (i) be entitled subject to Sub-Clause 2.5 [*Employer's Claims*] to payment of an amount equivalent to such commercially reasonable terms as the Contractor should have expected to have paid for such cover, and (ii) be deemed, unless he obtains the cover at commercially reasonable terms, to have approved the omission under <u>Sub-Clause 18.1</u> [*General Requirements for Insurances*].

18.3 Insurance against Injury to Persons and Damage to Property

The insuring <u>Party</u> shall insure against each <u>Party</u>'s liability for any loss, damage, death or bodily injury which may occur to any physical property (except things insured under <u>Sub-Clause 18.2</u> [*Insurance for <u>Works</u> and <u>Contractor's Equipment*]) or to any person (except persons insured under <u>Sub-Clause 18.4</u> [*Insurance for <u>Contractor's Personnel</u>*]), which may arise out of the Contractor's performance of the <u>Contract</u> and occurring before the issue of the <u>Performance Certificate</u>.</u>

This insurance shall be for a limit per occurrence of not less than the amount stated in the <u>Appendix to Tender</u>, with no limit on the number of occurrences. If an amount is not stated in the <u>Appendix to Tender</u>, this Sub-Clause shall not apply.

Unless otherwise stated in the Particular Conditions, the insurances specified in this Sub-Clause:

- (a) shall be effected and maintained by the Contractor as insuring $\ensuremath{\operatorname{Party}}$,
- (b) shall be in the joint names of the Parties,



- (c) shall be extended to cover liability for all loss and damage to the Employer's property (except things insured under Sub-Clause 18.2) arising out of the Contractor's performance of the Contract, and
- (d) may however exclude liability to the extent that it arises from:
- (i) the Employer's right to have the <u>Permanent Works</u> executed on, over, under, in or through any land, and to occupy this land for the <u>Permanent Works</u>,
- (ii) damage which is an unavoidable result of the Contractor's obligations to execute the <u>Works</u> and remedy any defects, and
- (iii) a cause listed in <u>Sub-Clause 17.3</u> [*Employer's Risks*], except to the extent that cover is available at commercially reasonable terms.

18.4 Insurance for Contractor's Personnel

The Contractor shall effect and maintain insurance against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractor or any other of the <u>Contractor's Personnel</u>.

The Employer and the Engineer shall also be indemnified under the policy of insurance, except that this insurance may exclude losses and claims to the extent that they arise from any act or neglect of the Employer or of the Employer's <u>Personnel</u>.

The insurance shall be maintained in full force and effect during the whole time that these personnel are assisting in the execution of the <u>Works</u>. For a <u>Subcontractor</u>'s employees, the insurance may be effected by the <u>Subcontractor</u>, but the Contractor shall be responsible for compliance with this Clause.



19 Force Majeure

19.1 Definition of Force Majeure

In this Clause, "Force Majeure" means an exceptional event or circumstance:

- (a) which is beyond a Party's control,
- (b) which such <code>Party</code> could not reasonably have provided against before entering into the <code>Contract</code>,
- (c) which, having arisen, such Party could not reasonably have avoided or overcome, and
- (d) which is not substantially attributable to the other $\ensuremath{\operatorname{Party}}$.

<u>Force Majeure</u> may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:

- (i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
- (ii) rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war,
- (iii) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel and other employees of the Contractor and <u>Subcontractor</u>s,
- (iv) munitions of war, explosive <u>Materials</u>, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
- (v) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.



19.2 Notice of Force Majeure

If a <u>Party</u> is or will be prevented from performing any of its obligations under the <u>Contract</u> by <u>Force Majeure</u>, then it shall give notice to the other <u>Party</u> of the event or circumstances constituting the <u>Force Majeure</u> and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 <u>days</u> after the <u>Party</u> became aware, or should have become aware, of the relevant event or circumstance constituting <u>Force Majeure</u>.

The <u>Party</u> shall, having given notice, be excused performance of such obligations for so long as such <u>Force Majeure</u> prevents it from performing them.

Notwithstanding any other provision of this Clause, <u>Force Majeure</u> shall not apply to obligations of either <u>Party</u> to make payments to the other <u>Party</u> under the <u>Contract</u>.

19.3 Duty to Minimise Delay

Each <u>Party</u> shall at all times use all reasonable endeavours to minimise any delay in the performance of the <u>Contract</u> as a result of <u>Force Majeure</u>.

A <u>Party</u> shall give notice to the other <u>Party</u> when it ceases to be affected by the <u>Force</u> <u>Majeure</u>.

19.4 Consequences of Force Majeure

If the Contractor is prevented from performing any of his obligations under the <u>Contract</u> by Force Majeure of which notice has been given under <u>Sub-Clause 19.2</u> [*Notice of Force Majeure*], and suffers delay and/or incurs <u>Cost</u> by reason of such <u>Force Majeure</u>, the Contractor shall be entitled subject to <u>Sub-Clause 20.1</u> [*Contractor's Claims*] to:

- (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- (b) if the event or circumstance is of the kind described in sub-paragraphs (i) to (iv) of Sub-Clause 19.1 [Definition of Force Majeure] and, in the case of sub-paragraphs (ii) to (iv), occurs in the Country, payment of any such Cost.

After receiving this notice, the Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine these matters.

19.5 Force Majeure Affecting Subcontractor



If any <u>Subcontractor</u> is entitled under any contract or agreement relating to the <u>Works</u> to relief from force majeure on terms additional to or broader than those specified in this Clause, such additional or broader force majeure events or circumstances shall not excuse the Contractor's non-performance or entitle him to relief under this Clause.

19.6 Optional Termination, Payment and Release

If the execution of substantially all the <u>Works</u> in progress is prevented for a continuous period of 84 <u>days</u> by reason of <u>Force Majeure</u> of which notice has been given under <u>Sub-Clause 19.2</u> [*Notice of Force Majeure*], or for multiple periods which total more than 140 <u>days</u> due to the same notified <u>Force Majeure</u>, then either <u>Party</u> may give to the other <u>Party</u> a notice of termination of the <u>Contract</u>. In this event, the termination shall take effect 7 <u>days</u> after the notice is given, and the Contractor shall proceed in accordance with <u>Sub-Clause 16.3</u> [*Cessation of Work and Removal of <u>Contractor's Equipment</u>].*

Upon such termination, the Engineer shall determine the value of the work done and issue a <u>Payment Certificate</u> which shall include:

- (a) the amounts payable for any work carried out for which a price is stated in the Contract;
- (b) the Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Employer when paid for by the Employer, and the Contractor shall place the same at the Employer's disposal;
- (c) any other Cost or liability which in the circumstances was reasonably incurred by the Contractor in the expectation of completing the Works;
- (d) the Cost of removal of Temporary Works and Contractor's Equipment from the Site and the return of these items to the Contractor's works in his country (or to any other destination at no greater cost); and
- (e) the Cost of repatriation of the Contractor's staff and labour employed wholly in connection with the Works at the date of termination.

19.7 Release from Performance under the Law

Notwithstanding any other provision of this Clause, if any event or circumstance outside the control of the <u>Parties</u> (including, but not limited to, <u>Force Majeure</u>) arises which makes it impossible or unlawful for either or both <u>Parties</u> to fulfil its or their



contractual obligations or which, under the law governing the <u>Contract</u>, entitles the <u>Parties</u> to be released from further performance of the <u>Contract</u>, then upon notice by either <u>Party</u> to the other <u>Party</u> of such event or circumstance:

- (a) the Parties shall be discharged from further performance, without prejudice to the rights of either Party in respect of any previous breach of the Contract, and
- (b) the sum payable by the Employer to the Contractor shall be the same as would have been payable under Sub-Clause 19.6 [Optional Termination, Payment and Release] if the Contract had been terminated under Sub-Clause 19.6.



20 Claims, Disputes and Arbitration

20.1 Contractor's Claims

If the Contractor considers himself to be entitled to any extension of the <u>Time for</u> <u>Completion</u> and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the <u>Contract</u>, the Contractor shall give notice to the Engineer, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 28 <u>days</u> after the Contractor became aware, or should have become aware, of the event or circumstance.

If the Contractor fails to give notice of a claim within such period of 28 <u>day</u>s, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Employer shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Sub-Clause shall apply.

The Contractor shall also submit any other notices which are required by the <u>Contract</u>, and supporting particulars for the claim, all as relevant to such event or circumstance.

The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the <u>Site</u> or at another location acceptable to the Engineer. Without admitting the Employer's liability, the Engineer may, after receiving any notice under this Sub-Clause, monitor the record-keeping and/or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Engineer to inspect all these records, and shall (if instructed) submit copies to the Engineer.

Within 42 <u>day</u>s after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Engineer, the Contractor shall send to the Engineer a fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect:

(a) this fully detailed claim shall be considered as interim;



- (b) the Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/or amount claimed, and such further particulars as the Engineer may reasonably require; and
- (c) the Contractor shall send a final claim within 28 days after the end of the effects resulting from the event or circumstance, or within such other period as may be proposed by the Contractor and approved by the Engineer.

Within 42 <u>day</u>s after receiving a claim or any further particulars supporting a previous claim, or within such other period as may be proposed by the Engineer and approved by the Contractor, the Engineer shall respond with approval, or with disapproval and detailed comments. He may also request any necessary further particulars, but shall nevertheless give his response on the principles of the claim within such time.

Each <u>Payment Certificate</u> shall include such amounts for any claim as have been reasonably substantiated as due under the relevant provision of the <u>Contract</u>. Unless and until the particulars supplied are sufficient to substantiate the whole of the claim, the Contractor shall only be entitled to payment for such part of the claim as he has been able to substantiate.

The Engineer shall proceed in accordance with <u>Sub-Clause 3.5</u> [*Determinations*] to agree or determine (i) the extension (if any) of the <u>Time for Completion</u> (before or after its expiry) in accordance with <u>Sub-Clause 8.4</u> [*Extension of <u>Time for</u> <u>Completion</u>], and/or (ii) the additional payment (if any) to which the Contractor is entitled under the <u>Contract</u>.*

The requirements of this Sub-Clause are in addition to those of any other Sub-Clause which may apply to a claim. If the Contractor fails to comply with this or another Sub-Clause in relation to any claim, any extension of time and/or additional payment shall take account of the extent (if any) to which the failure has prevented or prejudiced proper investigation of the claim, unless the claim is excluded under the second paragraph of this Sub-Clause.

20.2 Appointment of the Dispute Adjudication Board

Disputes shall be adjudicated by a <u>DAB</u> in accordance with <u>Sub-Clause 20.4</u> [*Obtaining Dispute Adjudication Board's Decision*]. The <u>Parties</u> shall jointly appoint a <u>DAB</u> by the date 28 <u>days</u> after a <u>Party</u> gives notice to the other <u>Party</u> of its intention to refer a dispute to a <u>DAB</u> in accordance with <u>Sub-Clause 20.4</u>.

The <u>DAB</u> shall comprise, as stated in the <u>Appendix to Tender</u>, either one or three suitably qualified persons ("the members"). If the number is not so stated and the <u>Parties</u> do not agree otherwise, the <u>DAB</u> shall comprise three persons.



If the <u>DAB</u> is to comprise three persons, each <u>Party</u> shall nominate one member for the approval of the other <u>Party</u>. The <u>Parties</u> shall consult both these members and shall agree upon the third member, who shall be appointed to act as chairman.

However, if a list of potential members is included in the <u>Contract</u>, the members shall be selected from those on the list, other than anyone who is unable or unwilling to accept appointment to the <u>DAB</u>.

The agreement between the <u>Parties</u> and either the sole member ("adjudicator") or each of the three members shall incorporate by reference the General Conditions of Dispute Adjudication Agreement contained in the Appendix to these General Conditions, with such amendments as are agreed between them.

The terms of the remuneration of either the sole member or each of the three members shall be mutually agreed upon by the <u>Parties</u> when agreeing the terms of appointment. Each <u>Party</u> shall be responsible for paying one-half of this remuneration.

If at any time the <u>Parties</u> so agree, they may appoint a suitably qualified person or persons to replace any one or more members of the <u>DAB</u>. Unless the <u>Parties</u> agree otherwise, the appointment will come into effect if a member declines to act or is unable to act as a result of death, disability, resignation or termination of appointment. The replacement shall be appointed in the same manner as the replaced person was required to have been nominated or agreed upon, as described in this Sub-Clause.

The appointment of any member may be terminated by mutual agreement of both <u>Parties</u>, but not by the Employer or the Contractor acting alone. Unless otherwise agreed by both <u>Parties</u>, the appointment of the <u>DAB</u> (including each member) shall expire when the <u>DAB</u> has given its decision on the dispute referred to it under <u>Sub-Clause 20.4</u> [*Obtaining Dispute Adjudication Board's Decision*], unless other disputes have been referred to the <u>DAB</u> by that time under <u>Sub-Clause 20.4</u>, in which event the relevant date shall be when the <u>DAB</u> has also given decisions on those disputes.

20.3 Failure to Agree Dispute Adjudication Board

If any of the following conditions apply, namely:

(a) the Parties fail to agree upon the appointment of the sole member of the DAB by the date stated in the first paragraph of Sub-Clause 20.2 [Appointment of the Dispute Adjudication Board],



- (b) either Party fails to nominate a member (for approval by the other Party) of a DAB of three persons by such date,
- (c) the Parties fail to agree upon the appointment of the third member (to act as chairman) of the DAB by such date, or
- (d) the Parties fail to agree upon the appointment of a replacement person within 42 days after the date on which the sole member or one of the three members declines to act or is unable to act as a result of death, disability, resignation or termination of appointment,

then the appointing entity or official named in the <u>Appendix to Tender</u> shall, upon the request of either or both of the <u>Parties</u> and after due consultation with both <u>Parties</u>, appoint this member of the <u>DAB</u>. This appointment shall be final and conclusive. Each <u>Party</u> shall be responsible for paying one-half of the remuneration of the appointing entity or official.

20.4 Obtaining Dispute Adjudication Board's Decision

If a dispute (of any kind whatsoever) arises between the <u>Parties</u> in connection with, or arising out of, the <u>Contract</u> or the execution of the <u>Works</u>, including any dispute as to any certificate, determination, instruction, opinion or valuation of the Engineer, then after a <u>DAB</u> has been appointed pursuant to <u>Sub-Clause 20.2</u> [*Appointment of the Dispute Adjudication Board*]and <u>20.3</u> [*Failure to Agree Dispute Adjudication Board*], either <u>Party</u> may refer the dispute in writing to the <u>DAB</u> for its decision, with a copy to the other <u>Party</u>. Such reference shall state that it is given under this Sub-Clause.

For a <u>DAB</u> of three persons, the <u>DAB</u> shall be deemed to have received such reference on the date when it is received by the chairman of the <u>DAB</u>.

Both <u>Parties</u> shall promptly make available to the <u>DAB</u> all information, access to the <u>Site</u>, and appropriate facilities, as the <u>DAB</u> may require for the purposes of making a decision on such dispute. The <u>DAB</u> shall be deemed to be not acting as arbitrator(s).

Within 84 <u>day</u>s after receiving such reference or the advance payment referred to in <u>Clause 6</u> of Appendix – General Conditions of Dispute Adjudication Agreement, whichever date is later, or within such other period as may be proposed by the <u>DAB</u> and approved by both <u>Parties</u>, the <u>DAB</u> shall give its decision, which shall be reasoned and shall state that it is given under this Sub-Clause. However, if neither of the <u>Parties</u> has paid in full the invoices submitted by each Member pursuant to <u>Clause 6</u> of the Appendix – General Conditions of Dispute Adjudication Agreement, the <u>DAB</u> shall not be obliged to give its decision until such invoices have been paid



in full. The decision shall be binding on both <u>Parties</u>, who shall promptly give effect to it unless and until it shall be revised in an amicable settlement or an arbitral award as described below. Unless the <u>Contract</u> has already been abandoned, repudiated or terminated, the Contractor shall continue to proceed with the <u>Works</u> in accordance with the <u>Contract</u>.

If either <u>Party</u> is dissatisfied with the <u>DAB</u>'s decision, then either <u>Party</u> may, within 28 <u>day</u>s after receiving the decision, give notice to the other <u>Party</u> of its dissatisfaction. If the <u>DAB</u> fails to give its decision within the period of 84 <u>day</u>s (or as otherwise approved) after receiving such reference or such payment, then either <u>Party</u> may, within 28 <u>day</u>s after this period has expired, give notice to the other <u>Party</u> of its dissatisfaction.

In either event, this notice of dissatisfaction shall state that it is given under this Sub-Clause, and shall set out the matter in dispute and the reason(s) for dissatisfaction. Except as stated in <u>Sub-Clause 20.7</u> [*Failure to Comply with Dispute Adjudication Board's Decision*] and <u>Sub-Clause 20.8</u> [*Expiry of Dispute Adjudication Board's Appointment*], neither <u>Party</u> shall be entitled to commence arbitration of a dispute unless a notice of dissatisfaction has been given in accordance with this Sub-Clause.

If the <u>DAB</u> has given its decision as to a matter in dispute to both <u>Parties</u>, and no notice of dissatisfaction has been given by either <u>Party</u> within 28 <u>days</u> after it received the <u>DAB</u>'s decision, then the decision shall become final and binding upon both <u>Parties</u>.

20.5 Amicable Settlement

Where notice of dissatisfaction has been given under <u>Sub-Clause 20.4</u> above, both <u>Parties</u> shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both <u>Parties</u> agree otherwise, arbitration may be commenced on or after the fifty-sixth <u>day</u> after the <u>day</u> on which notice of dissatisfaction was given, even if no attempt at amicable settlement has been made.

20.6 Arbitration

Unless settled amicably, any dispute in respect of which the <u>DAB</u>'s decision (if any) has not become final and binding shall be finally settled by international arbitration. Unless otherwise agreed by both <u>Parties</u>:

(a) the dispute shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce,



(b) the dispute shall be settled by three arbitrators appointed in accordance with these Rules, and

(c) the arbitration shall be conducted in the language for communications defined in <u>Sub-Clause 1.4</u> [*Law and Language*].

The arbitrator(s) shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Engineer, and any decision of the <u>DAB</u>, relevant to the dispute. Nothing shall disqualify the Engineer from being called as a witness and giving evidence before the arbitrator(s) on any matter whatsoever relevant to the dispute.

Neither <u>Party</u> shall be limited in the proceedings before the arbitrator(s) to the evidence or arguments previously put before the <u>DAB</u> to obtain its decision or to the reasons for dissatisfaction given in its notice of dissatisfaction. Any decision of the <u>DAB</u> shall be admissible in evidence in the arbitration.

Arbitration may be commenced prior to or after completion of the <u>Works</u>. The obligations of the <u>Parties</u>, the Engineer and the <u>DAB</u> shall not be altered by reason of any arbitration being conducted during the progress of the <u>Works</u>.

20.7 Failure to Comply with Dispute Adjudication Board's Decision

In the event that:

- (a) neither <u>Party</u> has given notice of dissatisfaction within the period stated in <u>Sub-Clause 20.4</u> [*Obtaining Dispute Adjudication Board's Decision*],
- (b) the <u>DAB</u>'s related decision (if any) has become final and binding, and
- (c) a Party fails to comply with this decision,

then the other <u>Party</u> may, without prejudice to any other rights it may have, refer the failure itself to arbitration under <u>Sub-Clause 20.6</u> [*Arbitration*]. <u>Sub-Clause 20.4</u> [*Obtaining Dispute Adjudication Board's Decision*] and <u>Sub-Clause 20.5</u> [*Amicable Settlement*] shall not apply to this reference.

20.8 Expiry of Dispute Adjudication Board's Appointment

If a dispute arises between the <u>Parties</u> in connection with, or arising out of, the <u>Contract</u> or the execution of the <u>Works</u> and there is no <u>DAB</u> in place, whether by reason of the expiry of the <u>DAB</u>'s appointment or otherwise:



- (a) <u>Sub-Clause 20.4</u> [*Obtaining Dispute Adjudication Board's Decision*] and <u>Sub-Clause 20.5</u> [*Amicable Settlement*] shall not apply, and
- (b) the dispute may be referred directly to arbitration under <u>Sub-Clause 20.6</u> [*Arbitration*].