All equipment shall be designed to minimize the risk of fire and any damage which may be caused in the event of fire.

All equipment shall be designed to prevent ingress of all vermin, accidental contact with live parts and to minimize the ingress of dust and dirt. The use of materials which may be liable to attack by termites or other insects shall be avoided.

All equipment shall operate without undue vibration, and the noise levels at the boundaries of the Site due to the operation of the equipment shall comply with the Local Authorities' requirements. The noise levels in the occupied areas shall not exceed the noise criteria as stipulated in the various sections of the Specification but in any case shall not exceed NC 40.

GR.26 Materials

All equipment and materials shall be new, of first quality of their respective kinds and of appropriate grade and quality for/or to be adequately protected against the local climatic conditions. In addition, the Contractor shall give special consideration to exposure to very high humidity, spray from rain, exposure to sea and brakish water and dust.

All materials, components and workmanship shall comply with the appropriate Standards as published by the SPRING Singapore or the British Standards Institution last published prior to the date of closing of tenders or be in accordance with other authoritative standards which, in the opinion of the Employer, will ensure an equivalent or higher quality of materials or equipment.

If the Contractor offers materials, equipment, design, calculations or tests which conform to standards other than those published by SPRING Singapore or the British Standards Institution, full details or the differences between the proposed standard and the equivalent SPRING Singapore or British Standard, insofar as they affect the design or purpose of the equipment, are to be supplied by the Contractor.

All equipment and materials supplied for the Contract Work shall become the property of the Employer and shall not be removed from the Site without the written consent of the Employer.

GR.27 Rules and Regulations

The Works and all plant, equipment and materials forming part of this Contract shall comply in all respects with any relevant Statutory Regulations, ~~Bye-Laws~~ and ~~Orders~~ currently in force in the Republic of Singapore. In addition, Rules and Requirements of the following bodies shall be complied with:

~~The~~ Ministry of ~~Labour~~ Manpower

~~The~~ Public Utilities Board

Singapore Power Pte ~~Ltd~~ Limited

~~The~~ Ministry of the Environment

~~The~~ Fire Safety & Shelter Bureau

~~Factory Inspectorate.~~

~~The Public Works Department~~

~~Anti-Pollution Unit~~

All other Authorities having jurisdiction over the installation

Code of Practices

Spore Standards.

Energy Market Authority

National Environment Agency

Singapore Civil Defence Force

Building Control Authority.

National Fire Protection Agency, USA.

City Gas Pte Ltd

PowerGas Pte Ltd.

The Contractor shall obtain and complete all notices required by all Local Authorities as necessary and shall obtain all consents necessary for the various works to be executed and shall pay all fees in connection therewith.

The Works shall also be carried out strictly in accordance with the current editions of all applicable ~~PSB~~ or British Standards or other National Standards acceptable to the Architect. ~~All~~ electrical installations and materials supplied shall comply with 'The Electricity Regulations, 1975' and any amendments thereof and the current edition of 'Singapore Standard CP 5: Code of Practice for Electrical Installations' ~~and to be approved by the Singapore Power Ltd.~~

GR.28 Patent Rights

The Contractor shall pay all royalties and expenses and be liable for all claims in respect of the use of patent rights whether in Singapore or elsewhere for or in connection with any article supplied under this Contract, and shall indemnify the Employer against any claims arising therefrom.

GR.29 Units of Measurement

In all correspondence, in all technical schedules and on all drawings the International System of Units (SI) shall be employed unless otherwise agreed.

GR.30 Tropicalisation

In choosing materials and their finishes due regard is to be given to the humid tropical conditions under which equipment is to work, and the recommendations of British Standard Code of Practice 1014 should be observed unless otherwise approved.

GR.31 Chromium Plating

The chromium plating of those components of equipment where offered by the Contractor shall comply with the requirements of BS 1224.

Iron and steel shall be painted and galvanised as appropriate.

GR.32 Cleaning and Painting

Metal work which is painted in the factory before despatch shall be prepared by filing in or wire brushing and rubbed down or similarly prepared to a smooth and rust-free finish and then given one priming coat, one or more undercoats and one or more top coats of approved paints. The second top coat shall be of a different shade of colour.

Metal work which is painted on site shall be prepared as above and given one coat of approved preservation paint before leaving the factory.

Metal work which will be erected in the open shall be given top coats of bitumastic based paint with appropriate approved primer and undercoat.
Where aluminium paint is specified the paint used for the undercoat shall be of the same quality as the top coat but slightly coloured by the addition of washing blue.

The inside of control cubicles, cabinets, etc. where condensation is liable to occur shall be coated with approved anti-condensation composition.

All bright metal parts shall be covered before shipment with an approved protective compound and protected adequately during shipment to site.

GR.33 Electrical Insulation

All equipment shall be designed to minimize the risk of fire and any damage which may be caused in the event of fire.

All equipment shall be designed to prevent ingress of all vermin, accidental contact with live parts and to minimize the ingress of dust and dirt. The use of materials which may be liable to attack by termites or other insects shall be avoided.

All equipment shall operate without undue vibration, and the noise levels at the boundaries of the Site due to the operation of the equipment shall comply with the Local Authorities' requirements. The noise levels in the occupied areas shall not exceed the noise criteria as stipulated in the various sections of the Specification but in any case shall not exceed NC 40.

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If the Contractor offers materials, equipment, design, calculations or tests which conform to standards other than those published by SPRING Singapore or the British Standards Institution, full details or the differences between the proposed standard and the equivalent SPRING Singapore or British Standard, insofar as they affect the design or purpose of the equipment, are to be supplied by the Contractor.

All equipment and materials supplied for the Contract Work shall become the property of the Employer and shall not be removed from the Site without the written consent of the Employer.

GR.27 Rules and Regulations

The Works and all plant, equipment and materials forming part of this Contract shall comply in all respects with any relevant Statutory Regulations, Code of Practices and Singapore Standards currently in force in the Republic of Singapore. In addition, Rules and Requirements of the following bodies shall be complied with:

Ministry of Manpower

Public Utilities Board

Energy Market Authority

Singapore Power Limited

Ministry of the Environment

National Environment Agency

Singapore Civil Defence Force

Fire Safety & Shelter Bureau

Building Control Authority

National Fire Protection Agency, USA

Infocomm Development Authority of Singapore

City Gas Pte Ltd

PowerGas Pte Ltd

All other Authorities having jurisdiction over the installation

The Contractor shall obtain and complete all notices required by all Local Authorities as necessary and shall obtain all consents necessary for the various works to be executed and shall pay all fees in connection therewith.

The Works shall also be carried out strictly in accordance with the current editions of all applicable Singapore Standards or British Standards or other National Standards acceptable to the Architect.

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