FIRE FIGHTING & ALARM INSTALLATION

SCHEDULE 7 - SCHEDULE OF TECHNICAL PARTICULARS

Prior approval must be obtained from the Project Director before any alterations are made to this preamble. This preamble is common for all the M & E Services and any alterations to this preamble for one service shall also be applicable to all the other M & E Services.
30/11/95

Preamble

Particulars given in this Schedule will be binding upon the Sub-Contractor, and may not be varied except on the written instruction of the Architect. The approval or otherwise of these particulars given shall in no way be deemed to relieve the Sub-Contractor of any of his obligations under the Sub-Contract.

Tenderers are requested not to repeat the details called for in any separate Specification of their own. The words 'As Specified' or 'To Suit' of "Equal and Approved" will not be accepted as a sufficient description of any item.

Tenderers wishing to offer alternative equipment shall submit full technical details as indicated hereafter on separate sheets and **not in this document**. Alternative offers shall also be accompanied by summarised cost adjustments relating to the price entered in the Form of Tender. **Failure to comply with this requirement may lead to the alternative offer not being considered**.

S7.1 Fire Pumpsets

Items	Acceptable Make/Manufacturer	Offer	
		Make/ Manufacturer	Country of Origin
Sprinkler Transfer Pumps	Grundfos/SPP/Ajax/Allen Gwynnes/ Armstrong		
Sprinkler Pumps	Grundfos/SPP/Ajax/Allen Gwynnes/Armstrong		
Wet Riser Transfer Pumps	Grundfos/SPP/Ajax/Allen Gwynnes/Armstrong		
Wet Riser Pumps	Grundfos/SPP/Ajax/Allen Gwynnes/Armstrong		
Jockey Pumps	Grundfos/Capelda/Lowara /Aurora/Monoflo		
Hosereel Pumps	Grundfos/Capelda/Lowara /Aurora/Monoflo		

S7.2 Pipes, Valves & Fittings

Items	Acceptable Make/Manufacturer	Offer	
		Make/ Manufacturer	Country of Origin
Ductile iron cement lined pipe	Kubota/Tyco/ Kurimoto/Electrosteel		
Ductile iron cement lined pipe fitting	ACI/HAH/CC/D		
Black steel pipe	Nippon Steel/SSH/STS/TK		
Black steel pipe fittings	Bowling/TSM/TSP/SCI		
Galvanised steel pipe	Nippon Steel/SSH/STS/TK		
Galvanised steel pipe fittings	Bowling/TSM/TSP/SCI		
Gate/Check/ Butterfly Valves	AFA/Toyo/ Spraysafe/Viking		
Strainers	AFA/Toyo/Viking		
Vibration Isolator	Kinetics/VMC/Mason/ Embelton/IAC/VCS		

……..
Official Stamp & Authorised Signature of Tenderer

S7.2 Pipes, Valves & Fittings (cont'd)

Items	Acceptable Make/Manufacturer	Offer	
		Make/ Manufacturer	Country of Origin
Anti-Vibration Couplings	AFA/Tozen/Powerflex/ Toa		
Mechanical couplings	Victaulic/Mech /Gruvlock		
Ball Float Valves	Ebco/KKK/ Cla-Val/Fowler		
Pilot Operated float valves	Watts/KKK/Cla-Val		
Level Electrode & Controller	Omron		
Pressure Reducing Valve	Watts/KKK/ Cla-Val/Clayton		
Fire rated enclosure	Promat/Vicuclad/FSC		

S7.3 Water Storage Tanks

Items	Acceptable Make/Manufacturer	Offer	
		Make/ Manufacturer	Country of Origin
Stainless Steel Panels	Hwaco/Pipeco		
Mild Steel Panels	Hwaco/Pipeco		

……..
Official Stamp & Authorised Signature of Tenderer

S7.4 Fire Fighting Equipment

Items	Acceptable Make/Manufacturer	Offer	
		Make/ Manufacturer	Country of Origin
Fire Hosereels	AE/SRI/Combat/Kolling/ Falcon		
Fire Extinguishers	AE/SRI/Combat/Killfire/ Falcon		
Wet Riser Landing Valves	AE/SRI/Combat/Kolling/ Falcon		
Dry Riser Landing Valves	AE/SRI/Combat/Kolling/ Falcon		
Standby Hose	AE/SRI/Combat/Kolling/ Falcon		
Breeching Inlet	AE/SRI/Combat/Kolling/ Falcon		
Sprinkler Alarm Valves and accessories	Angus/Viking/Tyco/ Reliable/Victaulic		
Water Motor Alarm c/w Gongs and Water Turbine	Angus/Viking/Tyco/ Reliable		
Water proving test equipment	Angus/Viking/Tyco/ Reliable		
Sprinkler Heads	Angus/Viking/Tyco/ Reliable		
Flow switches	Potter/System Sensor		
Pressure switch	Potter/System Sensor		
Supervisory switch	Potter/System Sensor		

……..
Official Stamp & Authorised Signature of Tenderer

S7.5 Fire Alarm System/Fireman Intercom System

Items	Acceptable Make/Manufacturer	Offer	
		Make/ Manufacturer	Country of Origin
Addressable Fire Alarm Panels	Siemens/Edwards/Notifier		
Addressable Smoke Detectors	Siemens/Edwards/Notifier		
Addressable Heat Detectors	Siemens/Edwards/Notifier		
Alarm Bells	Kobishi/Siemens /Edwards/Notifier		
Manual Call Points	KAC/ Siemens/ Edwards/Notifier		
UPS	Emerson/Socomec/APC		
Fireman Intercom	Siemens/Edwards/ Notifier		

S7.6 Electrical

Items	Acceptable Make/Manufacturer	Offer	
		Make/ Manufacturer	Country of Origin
Control Panel	SMB/Sunlight/ S-Team/Interpower/ABB		
MCCB	ABB/Schneider /Mitsubishi /Siemens/Merlin Gerin / Terasaki/ Siemens		
Variable Speed Drive	Danfoss/ABB/ Schneider/Siemens		
Overcurrent/Earth fault protection relays	Kasuga/Rudolf/Socomec/ GEC/Toshiba		
Contactors	ABB/Schneider/Hager /Telemecanique		
Power Cables	Singapore Cable/Sigma/ Tai Sin/Pirelli/BICC/ Unicable		
Conduit	Smart R/Aurora/Maruichi		
Trunking/Tray	Lipko/MK/Sakiya/Ekko/ CEE/Ega/AIM		

……..
Official Stamp & Authorised Signature of Tenderer