

SECTION D

PRESCRIBED FORMS

**INVITATION TO TENDER (ITT) FOR NON-COMPREHENSIVE
MAINTENANCE AND SERVICING OF MECHANICAL &
ELECTRICAL (M&E) SYSTEM FOR SINGAPORE ART MUSEUM
FOR A PERIOD OF TWO (2) YEARS FROM 1 NOVEMBER 2025
TO 31 OCTOBER 2027**

14 August 2025

FORM OF TENDER

To: Singapore Art Museum
39 Keppel Road
#03-07 Tanjong Pagar Distripark
Singapore 089065

Name(s) of Tenderer(s): ¹

Address:

Attn:

TENDER NO: SAM/ITT/2025/0004

- 1 We, _____ ² (Name(s) in Block Letters) hereby offer and undertake on the acceptance of this Tender Offer to supply the goods and/or services required under this Invitation to Tender.
- 2 Our Tender Offer is fully consistent with and does not contradict or derogate from anything in the Instructions to Tenderer and/or the Conditions of Contract or downgrade anything in your Requirement Specifications. You are entitled to disqualify our Tender Offer if it is inconsistent with or contradicts or derogates from anything in the Instructions to Tenderer and/or Conditions of Contract or downgrades anything in the Requirement Specifications.
3. We declare that all the information provided in this Tender Offer (including in the Prescribed Forms) are correct and true.
- 4 We undertake that we shall, if required by you, execute a formal agreement with you. If no formal agreement is executed, this Tender Offer together with your Letter of Acceptance shall constitute a binding contract between us on the terms of the Contract as defined in the Conditions of Contract.
- 5 OUR TENDER OFFER IS VALID FOR **3** CALENDAR MONTHS FROM THE CLOSING DATE OF THIS TENDER.
- 6 We agree that as and when requested by you, we shall extend the validity of this Tender Offer for one or more periods not exceeding in total 1 calendar month.
- 7 Our Contract Price for the Project Scope of Works, to be supplied by us is _____.
- 8 An itemized breakdown of the Contract Price for the Project Scope of Works is given in the priced schedule attached.
- 9 We further undertake to give you any further information which you may require.

¹ If the tender offer is submitted by a consortium, each member of the consortium shall be named.

² If the tender offer is submitted by a consortium, the Lead Member of the consortium shall submit the tender offer on behalf of the consortium members. Documentary proof must be provided that the Lead Member is authorised by all members of the consortium to submit, sign the tender offer, receive instruction, give any information, accept any contract and act for and on behalf of all the members of the consortium. For example, paragraph 1 in this Form of Tender should read "We, (Name of Lead Member), acting for and on behalf of (Name of 1st Member) , (Name of 2nd Member) and (etc – List out Names of remaining Members) ..."

- 10 We warrant, represent and declare that we are duly authorised to submit, sign this Tender Offer, receive instruction, give any information, accept any contract and act for and on behalf of _____³ (Insert Name of firm, company or consortium).

Dated this _____ day of _____, 202_____

Tenderer's (as *Principal/Agent)
Company or Business Registration No⁴:

Tenderer's official
Stamp⁴:

Authorized Signature⁴

Name :

Designation :

(*Delete whichever is not applicable)

NOTICE: This Form of Tender duly completed MUST accompany every Tender Offer. Any change to its wordings may render the Tender Offer liable to DISQUALIFICATION

³ If the tender offer is submitted by a consortium, the tender offer shall be submitted by the Lead Member on behalf of all members of the consortium. Each member of the consortium shall be listed. For example, "... for and on behalf of (Name of 1st Member) , (Name of 2nd Member) and (etc – List out Names of remaining Members) ..."

⁴ The Lead Member's registration number, official stamp and authorised signature must be provided.

SCHEDULE OF PERSONS EMPOWERED TO ACT

The following persons are empowered to sign contract documents and act on the firm's / company's behalf:

Name	NRIC No.	Position Held

In the case of consortiums, the documents required under Clause 16 of the Instructions to Tenderers must also be attached.

GST STATUS

We are / are not * a taxable person under the *Goods and Services Act*.

(* delete as appropriate)

Our GST registration number is _____

LIST OF RELEVANT TRACK RECORD IN THE LAST 5 YEARS

Contract No. / Name of Project	Client	Contract Sum	Contract Period		Value of Work Completed
			From	To	

Please use separate sheet if the space is insufficient.

INFORMATION ON MAJOR SHAREHOLDERS

Person, Company or Corporation who/which owns, whether directly or indirectly, at least 20% of the total number of shares in the Tenderer or who/which controls at least 20% of the voting rights in the Tenderer		Details of shares held by such person, company or corporation		
Name	Address	Number of Shares	% of Shares	Class of Shares

Non-Disclosure Agreement

By signing this Agreement, the Recipient agrees that in consideration of the Discloser agreeing to disclose and make available the Confidential Information to the Recipient for the Purpose, the Recipient shall not disclose or divulge Confidential Information, subject to the terms and conditions set out below.

The Recipient hereby agrees that:

1. The **'Discloser'** of the Confidential Information is:
Singapore Art Museum (UEN: 201330746G)
39 Keppel Road
#03-07 Tanjong Pagar Distripark
Singapore 089065

The **'Recipient'** of the Confidential Information is:

Name:

Company:

Address:

2. The **'Confidential Information'** disclosed under this Agreement is proprietary to the Discloser, its subsidiaries, affiliates and/or licensors, and consists of:

all Tender / Invitation to Quote documents and includes all other information, materials and documents transmitted to, or otherwise received by, the Recipient that the Discloser has identified as being confidential or proprietary in writing or otherwise, or that, by the nature of the circumstances surrounding the disclosure, ought in good faith to be treated as proprietary.

3. The purpose of the disclosure of the Confidential Information to the Recipient is:

To seek quotations for Tender / Invitation to Quote

4. The Recipient recognises the Discloser's proprietary right in and to the Confidential Information and agrees to keep secret and confidential and not to copy, reproduce, disseminate, transmit, distribute, publish or otherwise disclose to any third parties, whether before or after the completion of the purpose described in Clause 3, any Confidential Information except in accordance with the terms of this Agreement. The Recipient shall only be permitted to use the Confidential Information exclusively for the Purpose as set out above. Any disclosure of the Confidential Information must be strictly limited to those employees, agents, advisers and sub-contractors who reasonably have a need to know such Confidential Information to enable them to carry out their duties to the Recipient.
5. The Recipient shall protect the Confidential Information using the same degree of care, but no less than a reasonable degree of care, to prevent the unauthorised use, reproduction, dissemination, transmission, distribution, disclosure or publication of the Confidential Information as the Recipient uses to protect its own confidential information.
6. The Recipient shall use its best efforts to ensure that its employees, agents and sub-contractors comply with the restrictions in this Agreement. Any breach by any such person of its obligations of confidentiality shall be deemed a breach by the Recipient of this Agreement. The Recipient shall indemnify and keep the Discloser harmless against all damages, losses, costs or expenses including any special, incidental or consequential damages, legal costs and expenses, arising or resulting from the Recipient's (or its employees', agents' or sub-contractors') breach or non-performance of its obligations under this Agreement.
7. *The obligations of confidentiality under this Agreement do not apply to Confidential Information which:*

7.1 is already known to the Recipient at the time of disclosure;

- 7.2 is or becomes publicly known or generally available to the public through no wrongful act on the Recipient's part;
- 7.3 is rightfully received by the Recipient from a third party without breach of any obligation of confidentiality;
- 7.4 is explicitly approved for release by the prior written consent of the Discloser; or
- 7.5 is required to be disclosed by the Recipient to a court of competent jurisdiction or an appropriately empowered governmental agency or regulatory body.
8. The Recipient does not acquire any intellectual property rights in the Confidential Information under this Agreement except the limited rights to use the Confidential Information as set out in Clause 2 above.
9. Failure on the part of the Discloser to exercise any right under this Agreement or failure on the part of the Discloser to insist that the Recipient adhere to the strict terms of this Agreement shall not be considered a waiver by the Discloser of its right to demand at a later date strict adherence to the terms of this Agreement.
10. Any Confidential Information provided to the Recipient will at all times remain the property of the Discloser and must be returned to the Discloser together with any copies taken by or on behalf of the Recipient immediately upon a request by the Discloser. Upon the completion of the purpose described in Clause 3 or upon demand by the Discloser, the Recipient shall return all copies of Confidential Information to the Discloser, and, if required by the Discloser, shall provide written confirmation by a duly authorised officer that it:
- 10.1 does not have in its possession any copies of the Confidential Information; and
- 10.2 has not made, given, sold or otherwise disposed of any unauthorised copies of the Confidential Information for/to any other party.
11. The Discloser makes no representation or warranty (whether express or implied) about the accuracy or completeness of the Confidential Information and none of the Discloser, or any of its directors, officers, representatives or agents will have any liability to the Recipient or any other person or entity resulting from the Confidential Information or any use thereof
12. The Recipient acknowledges and agrees that any Confidential Information disclosed to it or its representatives by the Discloser prior to the date of this Agreement shall also be subject to the terms of this Agreement.
13. The Recipient acknowledges and agrees that money damages will not be a sufficient remedy for any breach of this Agreement by it and that the Discloser is entitled to specific performance and injunctive relief as remedies for any such breach. Such remedies shall not be deemed to be the exclusive remedies for a breach of this Agreement but shall be in addition to all other remedies available at law or equity.
14. The terms of this Confidentiality Agreement may not be amended or modified except by a written instrument executed by the parties hereto.
15. This Agreement shall be governed and construed in accordance with the laws of the Republic of Singapore. The Recipient irrevocably agrees to submit to the exclusive jurisdiction of the courts of Singapore over any claim or matter arising out of or in connection with this Agreement.

Signed for and on behalf of the Recipient:

Signed for and on behalf of the Discloser:

Name:
Date:

Name:
Date:

BACKGROUND INFORMATION

1. DETAILS ON COMPANY/FIRM/PERSON

1.1 Name and address:

1.2 Person to Contact :

1.3 Type of Company/Firm: Corporation / Partnership / Sole Proprietorship / Joint Venture

1.4 Type of Business: _____
(Please indicate whether a factory is being operated)

1.5 Registration Number with ACRA: _____

(Please provide a copy of Business/Company profile registered with ACRA)

1.6 Qualification and experience of qualified personnel under your employment:

2. FINANCIAL INFORMATION

2.1 Financial Information for the last 3 years

	Y/E <u>2022</u>	<u>2023</u>	<u>2024</u>
Annual Turnover \$K			

Net Profit Before Tax \$K

Paid Up Capital \$K

(Please attach Balance Sheet, Profit & Loss Statements and Cash Flow statements for the period mentioned above)

2.2 Bankers' Reference:

Name of Bank: _____

Branch: _____

Address: _____

A/C No.: _____

PRICE BREAKDOWN

Note: It is compulsory to submit your pricing breakdown for Non-Comprehensive Maintenance & Servicing of M & E system using the below table.
Itemised costing **MUST** be submitted. You must quote each item in the matrix. **“No Quote” is not acceptable.** Not fulfilling this stipulation will result in the disqualification of your entire submission.

Section A - Price Breakdown for M&E / ACMV System

Table 1: Monthly Maintenance

Table 1: Monthly Maintenance				Base Contract 1 Nov 2025 to 31 Oct 2027	
S/N	Description	Qty (a)	Frequency	Unit Rate (\$)	Total Amount (\$)
				(b)	(24-mths)
Service and Maintenance of Electrical installation					
1	Main Switchboard & Distribution Board Maintenance	1 lot	Monthly		(a) x (b) x 24
2	Lighting Fittings & Fixtures Maintenance	1 lot	Monthly		(a) x (b) x 24
Service and Maintenance of ACMV System					
3	Dx Coil Maintenance	1 lot	Monthly		(a) x (b) x 24
4	AHU Maintenance, Inclusive of Associated Fittings, i.e. Heater, Ducting, Sensors, Dampers, Control and Electrical Systems	1 lot	Monthly		(a) x (b) x 24
5	FCU Maintenance, Inclusive of Drainage Pumps and Electrical Systems	1 lot	Monthly		(a) x (b) x 24
6	Air-Cooled Split-Type & Pre-Cool AC Maintenance, Inclusive of Drainage Pumps and Electrical Systems	1 lot	Monthly		(a) x (b) x 24
7	Control System (ACMV) Maintenance, Inclusive of Electrical System and Motors	1 lot	Monthly		(a) x (b) x 24
8	Mechanical Ventilation System Inclusive of Ductwork, Fittings, Accessories	1 lot	Monthly		(a) x (b) x 24
9	Humidity Control Units, Inclusive of Electrical and Mechanical Components	1 lot	Monthly		(a) x (b) x 24
Service and Maintenance of Other M&E System					
10	Hosereel System Maintenance	1 lot	Monthly		(a) x (b) x 24
11	Fire Extinguishers Maintenance	1 lot	Monthly		(a) x (b) x 24
12	Provision of Technician for M&E and Event Routine Support	1 no.	Monthly		(a) x (b) x 24
Total Amount (subject to 9% GST & its prevailing rates)					(c)

Table 2: Quarterly Maintenance (to be billed quarterly upon job completion)

Table 2: Quarterly Maintenance (to be billed quarterly upon job completion)				Base Contract 1 Nov 2025 to 31 Oct 2027	
S/N	Description	Qty (a)	Frequency	Unit Rate (b)	Total Amount (24-mths)
Service and Maintenance of Other M&E System					
13	FM 200 System and Fire Protection and Detection System Maintenance, Inclusive of Testing and Certification (If Any)	1 lot	Quarterly		(a) x (b) x 8
14	Emergency Voice Communication System (EVC) Maintenance and Testing	1 lot	Quarterly		(a) x (b) x 8
15	Multilift System Maintenance Inclusive of Annual Inspection and 1 Load Test Before Contract Expired	1 no.	Quarterly		(a) x (b) x 8
16	Provision of Technician for M&E and Event Routine Support	1 no.	Monthly		(a) x (b) x 24
Total Amount (subject to 9% GST & its prevailing rates)					(d)

Table 3: Yearly Maintenance (to be billed yearly upon job completion)

Table 5: Yearly Maintenance (to be billed yearly upon job completion)					
S/N	Description	Qty (a)	Frequency	Base Contract 1 Nov 2025 to 31 Oct 2027	
				Unit Rate (b)	Total Amount (24-mths)
Service and Maintenance of Electrical installation					
17	Infra-red and Thermographic Scan	1 lot	Yearly		(a) x (b) x 2
18	Renewal of Electrical Installation Licensing, inclusive of Test Reports with LEW's Endorsement (submit to SAM)	1 lot	Yearly		(a) x (b) x 2
Total Amount (subject to 9% GST & its prevailing rates)					(e)

Total Contract Sum

S/N	Description	Total Amount
1	Total Costs for Monthly Routine Servicing and Maintenance Works	(c)
2	Total Costs for Quarterly Routine Servicing and Maintenance Works	(d)
3	Total Costs for Yearly Routine Servicing and Maintenance Works	(e)
Total Contract Sum (subject to 9% GST & its prevailing rates)		

SECTION B – SCHEDULE OF RATE FOR MANPOWER

Provide labours for working on site including transport and time to and fro from site for the proper execution, supervision, and completion of the works, use of tools and equipment, overheads charges, profits and everything else necessary as specific herein

SOR S/N	Description	Unit	Unit Rate (\$)	
			Mondays - Sundays (include PHs) 0800hrs to 1959hrs	Mondays - Sundays (include PHs) 2000hrs to 0759hrs
1.	<u>General M&E</u>			
a.	Technician	Per hour		
b.	Supervisor	Per hour		
2.	<u>AHU / DX Coil Specialist</u>			
a.	Technician	Per hour		
b.	Supervisor	Per hour		
3.	<u>Building Management System Specialist</u>			
a.	Technician	Per hour		
b.	Supervisor	Per hour		
4.	<u>FM 200 System Specialist</u>			
a.	Technician	Per hour		
b.	Supervisor	Per hour		
5.	<u>Multilift System Specialist</u>			
a.	Technician	Per hour		
b.	Supervisor	Per hour		
6.	<u>Licensed Electrical Worker</u>			
a.	Electrician	Per hour		
b.	Engineer	Per hour		

SECTION C – SCHEDULE OF RATE FOR M&E SYSTEMS

The Contractor shall supply all necessary materials and labour to replace and install the following systems, including but not limited to all associated accessories, cabling, fittings, and any other components required to complete the works in a proper and workmanlike manner.

Unless specifically stated otherwise, the following shall be deemed to be included in the description of the item of work: -

- a) Labour and all costs in connection therewith including the labour in fabricating, assembling, setting, fitting and fixing of materials and goods in position of working height up to 3 Meter.
- b) Materials and goods including materials required for lapping, jointing and the like and all costs in connection therewith such as delivery, unloading, storing, returning of packings, handling, hoisting and lowering.
- c) Preparing surfaces to receive work.
- d) Protecting materials and work.
- e) Waste of materials.
- f) All cutting and waste.
- g) Use of construction equipment, tools, vehicles and all costs in connection therewith.
- h) Cleaning up on completion and making good all work disturbed.
- i) General requirements set out in the Specifications, Drawings and other documents forming the Contract.
- j) Establishment charges, overhead and profit

S/N	Description	Model/Brand	Unit	Rate (\$)
	<u>Fire Alarm System</u>			
1.	FM 200 Control Panel - Hochiki-HCVR-3	Hochiki	no.	
2.	Gas Cylinder - Kidde	Kidde	no.	
3.	Smoke Detector - Est-Siga	EST-SIGA	no.	
4.	Inert Gas	N.A	kg	
5.	Alarm Bell- Mba	MBA-6-24	no.	
6.	Call Point- Intelligent Break glass Call Point	EST-SIGI-271	no.	
7.	Fire Hose Reel- BS EN 671-1 :2012	Rico	no.	
8.	Fire Extinguisher, 4Kg- 5kg ABC Dry powder	Kill Fire	no.	
	<u>Plumbing & Sanitary</u>			
9.	Leak Detector - SP-12	Picobox	no.	
10.	Lift Pump - V45 EN 12050-2	Sanispeed	no.	
11.	Portable Grease Interceptor - PGIN25GL	Norika	no.	
12.	Solenoid Valve - SVSSNO20IP65ES	Norika	no.	
13.	Gate Valve - GVC RPFN25	Norika	no.	
	<u>Emergency Voice Communication System</u>			
14.	Intelligent Signature Series Power Amplifier up to 50W	SIGA-AA50	no.	

S/N	Description	Model/Brand	Unit	Rate (\$)
15.	Wall Mounted Box Speaker - 0.5w	TOA, BS-663A	no.	
16.	Wall Mounted Horn Speaker -0.5w	TOA, SC-615M	no.	
17.	Ceiling Speaker – 0.5w	TOA, PC-658R	no.	
	<u>Building Management System</u>			
18.	Network switch	Hochiki	no.	
19.	Pc - Dell---Optiplex 7080 Tower	Kidde	no.	
20.	Communications Processor- EST-SIGA	N.A	no.	
21.	Network Application - MBA-6-24	N.A	no.	
22.	Uninterruptible Power Supply (UPS)	Rico	no.	
23.	Schneider TM221 PLC	Schneider	no.	
24.	Communications Processor- PMC-1304-3	N.A	no.	
25.	Digital Three-Phase Energy Meter	Ecoxplore	no.	
26.	AC/DC Converter	N.A	no.	
27.	Software Upgrade	Ecoxplore	no.	
	<u>Airconditioning and Mechanical Ventilation System</u>			
28.	Air-Cooled Split-Type Room Air Conditioners (Daikin, VRV System) a. Supply labour, materials, tools and transport to install air-cooled single/multi split units, variable refrigeration series or approved equivalent including testing and commissioning. To include twelve (12) monthly maintenance and servicing of the air-cooled split type air-conditioning units, as well as the following accessories: b. Electrical wiring, refrigerant piping, insulation and trunking to condensing unit from the fan coil. c. Drainage piping, insulation and trunking to floor trap from the fan coil unit. (the size of drain pipe shall be as recommended by equipment manufacturer) Connection to power point from the condensing unit. (Power point by others) d. Vacuum, Purging and charging of gas to be included			
i.	Up to 12000 BTU/hr total cooling capacity single split-type air conditioners with ceiling cassette (4-way throw) fan coils unit and built-in condensate pump		no.	
ii.	Up to 18000 BTU/hr total cooling capacity single split-type air conditioners with ceiling cassette (4-way throw) fan coils unit and built-in condensate pump		no.	
iii.	Up to 24000 BTU/hr total cooling capacity single split-type air conditioners with ceiling cassette (4-way throw) fan coils unit and built-in condensate pump		no.	
iv.	Up to 36000 BTU/hr total cooling capacity single split-type air conditioners with ceiling cassette (4-way throw) fan coils unit and built-in condensate pump		no.	
v.	Up to 48000 BTU/hr total cooling capacity single split-type room air conditioner with ceiling cassette (4-way throw) fan coil unit and built-in condensate pump		no.	

S/N	Description	Model/Brand	Unit	Rate (\$)
29.	Daikin (FCU, Ceiling Cassette)	FXFQ 25	no.	
30.	Daikin (FCU, Ceiling Cassette)	FXFQ 32	no.	
31.	Daikin (FCU, Ceiling Cassette)	FXFQ 40	no.	
32.	Daikin (FCU, Ceiling Cassette)	FXFQ 50	no.	
33.	Daikin (FCU, Ceiling Cassette)	FXFQ 63	no.	
34.	Daikin (FCU, Ceiling Cassette)	FXFQ 25	no.	
35.	Daikin (FCU, Ceiling Cassette)	FXFQ 32	no.	
36.	Daikin (FCU, Ceiling Cassette)	FXFQ 40	no.	
37.	Daikin (FCU, Ceiling Cassette)	FXFQ 50	no.	
38.	Daikin (FCU, Ceiling Cassette)	FXFQ 63	no.	
39.	Daikin (FCU, Ceiling Cassette)	FXFQ 80	no.	
40.	Daikin (FCU, Ceiling Cassette)	FXFQ 100	no.	
41.	Daikin (FCU, Ceiling Cassette)	FXFQ 125	no.	
42.	Daikin Ducted (FCU, Pre-Cool)	FXMQ 250	no.	
43.	Daikin Ducted (FCU, Pre-Cool)	FXMQ125 PAVE	no.	
44.	Daikin (FCU, Ducted)	FXMQ40 PAVE	no.	
45.	Daikin (FCU, Single Split ducted Unit)	FCQ71LUV1- 1	no.	
46.	Condensing Unit, RXQ 50 AMYM-FC2	Daikin	no.	
47.	Condensing Unit, RXQ 48 AMYM-FC2	Daikin	no.	
48.	Condensing Unit, RXQ 52 AMYM	Daikin	no.	
49.	Condensing Unit, RXQ10 AMYM	Daikin	no.	
50.	Condensing Unit, RZR71LVVM-1	Daikin	no.	
51.	Condensing Unit, RXQ6 AMYM	Daikin	no.	
52.	Dehumidifier - PD40LAE	Way Tech	no.	
53.	Motorise Damper- NM24-SRS--8Nm (Belimo)	Way Tech	no.	
54.	Wall Mounted - 15WHPCT	KDK	no.	
55.	Drainage Pump	Dakin	no.	
56.	Fan Blower for Condenser - Up to 800mm Dia	Dakin	no.	
57.	Fan Blower FCU - Up to 200mm x 1000mm (length)	Dakin	no.	

S/N	Description	Model/Brand	Unit	Rate (\$)
58.	Thermostat IC type	Dakin	no.	
59.	Inverter Printed Circuit Board	Dakin	no.	
60.	VRV Controller – SVMPC1T	Dakin	no.	
61.	Ventilation Fan - RK160L	Wolter	no.	
62.	Ventilation Fan - RFE125	Wolter	no.	
63.	Refrigerant R410A	N.A.	kg	
64.	Refrigerant R32	N.A.	kg	
65.	Dx Coil and AHU Spare Parts			
i.	Ducted Heater: Up to 8KW, 415V 3Phase	Way Tech	no.	
ii.	AHU unit : TFMC-3040F-D Fan type: EC Fan Model: GR50C-ZID.GL.CR(114724/H01)	Way Tech	no.	
iii.	Condensing Unit: TFCEA-10 Model: ECF(CK)8D650-PFB5SL	Way Tech	no.	
iv.	Condensing Unit: TFCEA-20 Model: ECF(CK)8D800-PFB7SL	Way Tech	no.	
v.	Compressor unit Brand : Danfoss Model : SH240 (20HP)	Way Tech	no.	
vi.	Compressor unit Brand : Danfoss Model : SH120 (10HP)	Way Tech	no.	
vii.	Humidity & Temperature transmitter Duct mounting - HTDT 2500	Way Tech	no.	
66.	Supply labour, materials, tools and transport to replace Hermetic rotary compressor 230V/1ph 50Hz including renewal of strainer/filter drier, flush system with nitrogren, check leak, charge refrigerant gas, refill refrigerant oil, cleaning/painting of mounting etc.			
i.	Up to 1.5kW	Dakin	no.	
ii.	Up to 2.25kW	Dakin	no.	
iii.	Up to 3.75kW	Dakin	no.	
67.	Supply labour, materials, tools and transport to replace Hermetic compressor 400/415V/3ph 50Hz including renewal of strainer/filter drier, flush drier, check leak, charge refrigerant gas, refill refrigerant oil, cleaning/painting of mounting etc.			
i.	Up To 5.6KW	Dakin	no.	
ii.	Up To 7.5kW	Dakin	no.	
iii.	Up To 11.25KW	Dakin	no.	
iv.	Up To 15 KW	Dakin	no.	
	<u>Electrical Installation and Fitting</u>			
68.	Installation, Inclusive of Wiring Accessories and Wiring Points and SP/DP MCB. All Wiring Points shall be considered not to exceed 20m			

S/N	Description	Model/Brand	Unit	Rate (\$)
i.	13 Amp Single socket outlet point complete with switch		no.	
ii.	13 Amp Twin socket outlet point complete with switch		no.	
iii.	16-20 Amp weatherproof isolator point for Air-conditioner		no.	
iv.	Wall exhaust fan/ Wall fan point complete with switch		no.	
v.	Ceiling lighting point complete with switch		no.	
69.	Light Fitting			
i.	Emergency – Ufo (Pne-Recessed Type), TTH-312		no.	
ii.	Emergency – Exit Sign (Maxspid), ES/ED/M		no.	
iii.	Surface Wall Mounted Emergency Lighting (Maxspid), UF.3NC180		no.	
iv.	Pendant Light (SL-Light), JTM-A025		no.	
70.	Industrial Socket Cee Form Socket complete with switch, 4P+E, IP44 – IP67			
i.	32 Amp		no.	
ii.	63 Amp		no.	
71.	Laying wirings in conduits or metal / PVC trunkings or cable trays The Rates are applicable to Green/Yellow earth cables PVC / PVC insulated cable to Singapore Std 50:1971 600/ 1000V grade			
i.	1 x 2.5mm ²		m	
ii.	1 x 4mm ²		m	
iii.	1 x 6mm ²		m	
iv.	1 x 10mm ²		m	
v.	1 x 16mm ²		m	
vi.	1 x 25mm ²		m	
vii.	1 x 35mm ²		m	
72.	PVC insulated cable to Singapore Std 50: 1971 600/ 1000V grade			
i.	1 x 2.5mm ²		m	
ii.	1 x 4mm ²		m	
iii.	1 x 6mm ²		m	
iv.	1 x 10mm ²		m	
v.	1 x 16mm ²		m	
vi.	1 x 25mm ²		m	
vii.	1 x 35mm ²		m	

S/N	Description	Model/Brand	Unit	Rate (\$)
73.	Rental Of Mobile Soundproof Emergency Generator To Supply labour, transportation (to and from site) for the rental for the mobile soundproof emergency generator with the specific KVA rating including, but not limited to fuel, engine oil, manning of the mobile sets, all temporary cables for the connection and connecting, commissioning operating and maintenance of the mobile soundproof emergency generator. (including LEW endorsement and relevant Authority submission, if required)			
i.	Up To 75KVA		Per Day	
ii.	Up To 75KVA		Per Week	
iii.	Up To 75KVA		Per Month	
iv.	Up To 100KVA		Per Day	
v.	Up To 100KVA		Per Week	
vi.	Up To 100KVA		Per Month	
vii.	Up To 300KVA		Per Day	
viii.	Up To 300KVA		Per Week	
ix.	Up To 300KVA		Per Month	
74.	Supply labour, materials and tools for installation/replacement of moulded case circuit breaker (MCCB) in existing or new distribution boards including all associated electrical accessories and necessary termination work (22k - 50k)			
i.	30 Amp - 32 Amp MCCB TPN		no.	
ii.	60 Amp – 63 Amp MCCB TPN		no.	
iii.	100 Amp MCCB TPN		no.	
iv.	200 Amp MCCB TPN		no.	
v.	300 Amp MCCB TPN		no.	
vi.	400 Amp MCCB TPN		no.	
75	Supply labour, material to install/replace MCB type 2/type3 (w/o metal casing) including neutral links, protective insulation cover and all necessary accessories (9K - 22k)			
i.	5 Amp - 6 Amp SP		no.	
ii.	10 Amp – 16 Amp SP		no.	
iii.	20 Amp SP		no.	
iv.	30 Amp SP		no.	
v.	20 Amp DP		no.	
vi.	30 Amp DP		no.	
vii.	20 Amp TP		no.	
viii.	30 Amp TP		no.	

S/N	Description	Model/Brand	Unit	Rate (\$)
	<u>Professional Services</u>			
	Professional Engineer's endorsement on the drawing for any changes in Air-conditioning and Mechanical Ventilation layout		Per Endorsement	
	Professional Engineer's endorsement on fire protection layout drawings for any changes to existing system and waiver on regulations the drawing for any changes of Air-conditioning and Mechanical Ventilation layout		Per Endorsement	
	Submission to Authorities including P.E's endorsement for any alterations/additions to existing system		Per Endorsement	
	Submission of plans to Authorities for alteration/additions on sprinkler heads and arrange for R.I. inspection		Per Endorsement	
	Inspection, calculations and advice on Structural Layout		Per Endorsement	
	Submission of plans to Authorities for structural services for studies and recommendation including alteration/additions to structural works (inclusive of final acceptance and completion of the works)		Per Endorsement	