

# Contractor Management Handbook

Development Bureau

Revision B-10  
March 2013

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<a href="#">B-10</a>	<a href="#">25/3/2013</a>		<a href="#">Establishment of the category of “Plumbing Installation”, and revision of the scope and the “minimum technical and management criteria for admission, confirmation and promotion” of the category of “Landscaping: Class I – General Landscape Work” as promulgated by letter to all contractors on the List of Approved Contractors for Public Works and the List of Approved Suppliers of Materials and Specialist Contractors for Public Works ref: (02J7J-01-6) in DEVB(PS) 108/34 dated 26 March 2013.</a>
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Annex 32 List of Tools/Equipment and Testing Instruments for Swimming Pool Water Treatment Installation Category

Annex 33 List of Tools/Equipment and Testing Instruments for Uninterruptible Power Supply Installation Category

Annex 34 List of Tools/Equipment and Testing Instruments for Video Electronics Installation Category

[Annex 35](#) [Minimum Personnel and Equipment Requirements for Landscaping Category, Class I : General Landscape Work](#)

[Annex 36](#) [List of Tools / Equipment and Testing Instruments for the Plumbing Installation Category](#)

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- Appendix 4A - Standard Proforma of the Report on Contractor's Performance
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	Categories	Suppliers of Materials	Specialist Contractors	Managing Departments (Note)
23	Low Voltage Cubicle Switchboard Installation		X	Arch SD
24	Mechanical Handling and Lifting Installation		X	Arch SD
25	Mechanical Plant and Equipment Installation Group I – Contracts/Sub-contracts up to \$1.1 million Group II – Contracts/Sub-contracts of unlimited value		X	Arch SD
26	Motor Vehicle Body-building and Painting		X	Arch SD
<a href="#">27</a>	<a href="#">Plumbing Installation Group I – Contracts/Sub-contracts up to \$2.3 million</a> <a href="#">Group II – Contracts/Sub-contracts of unlimited value</a>		<a href="#">X</a>	<a href="#">Arch SD</a>
28	Prestressed Concrete Works for Highway Structures Class I – Supply and Installation of Prestressing Systems Class II – Supply of Prestressed Concrete Units	X	X	Hy D
29	Radio Electronics Installation		X	Arch SD
30	Repair and Restoration of Historic Buildings		X	Arch SD
31	Repair of Motors, Transformers and Switchgear		X	WSD
32	Road Marking		X	Hy D
33	Soil and Rock Testing		X	CEDD

	<b>Categories</b>	<b>Suppliers of Materials</b>	<b>Specialist Contractors</b>	<b>Managing Departments (Note)</b>
34	Space Frame Systems	X	X	Arch SD
35	Specialized Operations for Highway Structures Class I – Guniting Class II – Waterproofing of Concrete Surfaces Class III – Repair of Cracked Concrete by Resin Injection Class IV – Non-destructive Testing of Welds Class V – Hot Dip Galvanising		X	Hy D
36	Steam and Compressed Air Installation		X	Arch SD
37	Structural Steelwork		X	Hy D
38	Supply and Installation of Bearings for Highway Structures Class I – Mechanical Bearings Class II – Elastomeric Bearings		X	Hy D
39	Supply and Installation of Expansion Joints for Highway Structures		X	Hy D
40	Supply and Installation of Pumpsets and Associated Pipework		X	WSD
41	Supply and Installation of Water Treatment Plant		X	WSD
42	Supply of Bituminous Pavement Materials and Construction of Special Bituminous Surfacing	X	X	Hy D
43	Survey of Government Land Pressure Receivers subject to Steam and Air Pressure (but excluding Steam Boilers)		X	Arch SD
44	Survey of Government Land Steam Boilers		X	Arch SD

Categories		Suppliers of Materials	Specialist Contractors	Managing Departments (Note)
45	Survey of Lifting Appliances and Lifting Gear		X	Arch SD
46	Swimming Pool Water Treatment Installation		X	Arch SD
<del>47</del>	Transparent Panels for Noise Barriers on Highways [formerly named as “Prefabricated Architectural Walls and Finishes (Screens, Sound Barriers and Retaining Walls)”]	X		HyD
<del>48</del>	Turn-key Interior Design and Fitting-out Works Group I – Eligible to be awarded one contract as a Trade Test Group II – Eligible to be awarded more than one contract at any time		X	Arch SD
<del>49</del>	Uninterruptible Power Supply Installation		X	Arch SD
<del>50</del>	Video Electronics Installation		X	Arch SD

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Note:

- Arch SD : Architectural Services Department  
CEDD : Civil Engineering and Development Department  
Hy D : Highways Department  
LD : Lands Department  
WSD : Water Supplies Department

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## APPENDIX 3C Minimum Technical & Management Criteria for Admission, Confirmation and Promotion of Contractors for the Specialist List

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29	Radio Electronics Installation	<del>160 – 164</del>	1, 25
30	Repair and Restoration of Historic Buildings	<del>165 – 166</del>	-
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Categories		Page No	Annex No
35	Specialized Operations for Highway Structures Class I – Guniting Class II – Waterproofing of Concrete Surfaces Class III – Repair of Cracked Concrete by Resin Injection Class IV – Non-destructive Testing of Welds Class V – Hot Dip Galvanising	<u>179 - 180</u> <u>181 - 182</u> <u>183 - 184</u> <u>185 - 186</u> <u>187 - 189</u>	-
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46	Swimming Pool Water Treatment Installation	<u>227 - 232</u>	1, 32
<u>47</u>	Transparent Panels for Noise Barriers on Highways [formerly named as “Prefabricated Architectural Walls and Finishes (Screens, Sound Barriers and Retaining Walls)”]	<u>233 - 235</u>	-
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<u>50</u>	Video Electronics Installation	<u>244 - 248</u>	1, 34

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**Managing Department:** Architectural Services Department

**Works Category:** Air-conditioning Installation **Specialist Contractor**

**Group I:** Contracts/Subcontracts up to HK\$5.7M

**Group II:** Contracts/Subcontracts of unlimited value

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of air-conditioning installations comprising chillers, refrigeration systems, heat rejection plant, pipeworks, water handling equipment, air ducts, air handling equipment, thermal insulation, control and monitoring system, etc.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

<sup>@</sup> Probation to Group I : Eligible for the award of a maximum of two Group I contracts/subcontracts

Probation to Group II : Eligible for the award of any number of Group I contracts/subcontracts; and a maximum of two Group II contracts/subcontracts provided that the total value of Group II works does not exceed \$20 million

<sup>@</sup> Not applicable for new application for admission. (Only applicable for existing Group I probationary contractor)

<sup>#</sup> See [Remarks \(1\) on the end page of this Appendix.](#)

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Group I A. Entry on Probation	Group II A. Entry on Probation
Not Applicable	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds 180% of Group I tender limit; and</p> <p>(b) The contract shall cover major scope of works as described in the "Brief Scope of Category"; and</p> <p>(c) The air-conditioning installation shall be of central type, which shall include chiller, chilled water pipeworks, pumps, air-handling equipment, etc., and the cooling capacity of the chillers is not less than 1000kW; and</p> <p>(d) The contract shall be of a completely new building construction project or a whole building refurbishment project.</p>

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Group I	Group II
	<p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</li> <li>(d) The aforementioned main contractor shall not be the air-conditioning installation contractor for the project work; and</li> <li>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor’s authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(f) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</li> </ul> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be</p> <ul style="list-style-type: none"> <li>✧ a Registered Specialist Contractor in the Ventilation Sub-register under Buildings Ordinance, Cap. 123; and</li> <li>✧ a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and</li> </ul> <p>have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><u>Quality Management System Certification</u></p> <p>Quality Management System certificates issued under the rules of the Hong Kong Certification Body Accreditation Scheme (HKCAS) operated by the Hong Kong</p>

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Group I	Group II																										
	<p>Accreditation Service (HKAS); i.e. bearing the HKCAS Accreditation Mark, and Quality Management System certificates bearing the accreditation mark of other accreditation bodies which are considered as having an equivalent standard by the Environment, Transport and Works Bureau.</p> <p>The scope of certification shall be relevant to the contractor list being applied for, e.g. “supply, installation and maintenance of air-conditioning installation”.</p> <p>If the scope of certification does not include “maintenance”, the manual shall have relevant sections for maintenance work that shall include not only post contract service but also service for separate maintenance contract.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical or Building Services discipline) with adequate and relevant project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1003 715 1841 790"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>4 nos.</td> </tr> <tr> <td>Draftsman</td> <td>2 nos.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <table data-bbox="1003 901 1841 1165"> <tr> <td>(A) Plumber/ AC Mechanic</td> <td></td> </tr> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Plumber/AC Mechanic</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Plumber/AC Mechanic</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Plumber/AC Mechanic</td> <td>8 marks</td> </tr> <tr> <td>(B) Electrician</td> <td></td> </tr> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Electrician</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Electrician</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Electrician</td> <td>8 marks</td> </tr> </table> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p>	Technician	2 nos.	Site supervisor	4 nos.	Draftsman	2 nos.	(A) Plumber/ AC Mechanic		Minimum score required	40 marks	Qualified Plumber/AC Mechanic	20 marks	Intermediate Plumber/AC Mechanic	15 marks	Ordinary Plumber/AC Mechanic	8 marks	(B) Electrician		Minimum score required	40 marks	Qualified Electrician	20 marks	Intermediate Electrician	15 marks	Ordinary Electrician	8 marks
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Intermediate Electrician	15 marks																										
Ordinary Electrician	8 marks																										

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Group I	Group II
	<p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 2 nos. (minimum)</p> <p>◇ Licensed Plumber (LP) registered under Waterworks Ordinance, Cap. 102 – 1 no. (minimum)</p> <p>The LP and REW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><u>Qualified Welder</u></p> <p>Employ adequate nos. of Qualified Welder (QW)</p> <p>QW <span style="float: right;">2 nos.</span></p> <p>The QW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <sup>**</sup>(See Remarks on the end page of this Appendix)</p> <p>Adequate modern drafting and computing facilities; minimum 2 nos. CAD terminals. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 2</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 110 m<sup>2</sup> and the minimum workshop + storage area shall be 50 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>
B. Confirmation	B. Confirmation
<p><b>The following shall only be applicable to existing Group I probationary contractor:</b></p> <p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds 50% of Group I tender limit; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”; and</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds Group I tender limit; and</p> <p>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”; and</p> <p>(c) The air-conditioning installation shall be of central type, which shall include</p>

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Group I	Group II
<p>(c) Installation of window type air-conditioners will not be considered as valid job reference: and</p> <p>(d) If the contract is a term contract, all of the above requirements 3 (a) to 3 (c) shall be fulfilled in one works order.</p> <p>(4) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</p> <p>(d) The aforementioned main contractor shall not be the air-conditioning installation contractor for the project work.</p>	<p>chiller, chilled water pipeworks, pumps, air-handling equipment, etc., and the cooling capacity of the chillers is not less than 1000kW; and</p> <p>(d) The contract shall be of a completely new building construction or a whole building refurbishment; and</p> <p>(e) If the contract is a term contract, all of the above requirements 3 (a) to 3 (d) shall be fulfilled in one works order.</p> <p>(4) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</p> <p>(d) The aforementioned main contractor shall not be the air-conditioning installation contractor for the project work.</p>
<b>C. Direct Entry</b>	<b>C. Direct Entry</b>
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p>	Not Applicable

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<p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds 50% Group I tender limit; and</p> <p>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</p> <p>(c) Installation of window type air-conditioners will not be considered as valid job reference.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</p> <p>(d) The aforementioned main contractor shall not be the air-conditioning installation contractor for the project work; and</p> <p>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor's authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(f) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the</p>	

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<p>authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be</p> <ul style="list-style-type: none"> <li>◇ a Registered Specialist Contractor in the Ventilation Sub-register under Buildings Ordinance, Cap. 123; and</li> <li>◇ a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and</li> </ul> <p>have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td style="text-align: right;">2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td style="text-align: right;">2 nos.</td> </tr> <tr> <td>Draftsman</td> <td style="text-align: right;">1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman with adequate relevant experience in the following trades</p> <p>(A) Plumber/AC Mechanic</p> <table border="0"> <tr> <td>Minimum score required</td> <td style="text-align: right;">20 marks</td> </tr> <tr> <td>Qualified Plumber/AC Mechanic</td> <td style="text-align: right;">20 marks</td> </tr> <tr> <td>Intermediate Plumber/AC Mechanic</td> <td style="text-align: right;">15 marks</td> </tr> <tr> <td>Ordinary Plumber/AC Mechanic</td> <td style="text-align: right;">8 marks</td> </tr> </table> <p>(B) Electrician</p> <table border="0"> <tr> <td>Minimum score required</td> <td style="text-align: right;">20 marks</td> </tr> <tr> <td>Qualified Electrician</td> <td style="text-align: right;">20 marks</td> </tr> <tr> <td>Intermediate Electrician</td> <td style="text-align: right;">15 marks</td> </tr> <tr> <td>Ordinary Electrician</td> <td style="text-align: right;">8 marks</td> </tr> </table> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.	Minimum score required	20 marks	Qualified Plumber/AC Mechanic	20 marks	Intermediate Plumber/AC Mechanic	15 marks	Ordinary Plumber/AC Mechanic	8 marks	Minimum score required	20 marks	Qualified Electrician	20 marks	Intermediate Electrician	15 marks	Ordinary Electrician	8 marks	
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Ordinary Electrician	8 marks																						

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<p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</p> <p>◇ Licensed Plumber (LP) registered under Waterworks Ordinance, Cap. 102 – 1 no. (minimum)</p> <p>The LP and REW can be the Engineer, Technical Support Staff or Craftsman.</p> <p><u>Qualified Welder</u></p> <p>Employ adequate nos. of Qualified Welder (QW)</p> <p>QW 1 no.</p> <p>The QW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>***(See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates where applicable for testing instruments shall be available. Refer to <b>Annex 2</b> for list of typical equipment /tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 50 m<sup>2</sup> and the minimum workshop + storage area shall be 30 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>	

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**Managing Department:** Architectural Services Department

**Works Category:** Audio Electronics Installation **Specialist Contractor**

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of power amplifier, mixing amplifier, cassette tape deck, loudspeaker, microphone etc. commonly used for public address system, intercom system, language laboratory system, simultaneous interpretation system and audio system at different venues.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.2M; and</p> <p>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</p> <p>(c) If the contract is a term contract, all of the above requirements (a) shall be fulfilled in one works order.</p> <p>(4) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the audio electronics installation contractor for the project work.</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(a) Contract value of the work related to the category under application for inclusion exceeds \$0.2M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the audio electronics installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p>		<p>category under application for inclusion exceeds \$0.5M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the audio electronics installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry																								
<p><b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of Electronics Craftsman</p> <table border="0"> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Electronics Craftsman</td> <td>20 marks</td> </tr> <tr> <td>Ordinary Electronics Craftsman</td> <td>10 marks</td> </tr> </table> <p><b>3. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <b>Annex 3</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>4. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>5. Others</b></p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	40 marks	Qualified Electronics Craftsman	20 marks	Ordinary Electronics Craftsman	10 marks		<p><b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of Electronics Craftsman</p> <table border="0"> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Electronics Craftsman</td> <td>20 marks</td> </tr> <tr> <td>Ordinary Electronics Craftsman</td> <td>10 marks</td> </tr> </table> <p><b>3. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <b>Annex 3</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>4. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>5. Others</b></p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	40 marks	Qualified Electronics Craftsman	20 marks	Ordinary Electronics Craftsman	10 marks
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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>		<p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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Managing Department: Architectural Services Department

Works Category: Broadcast Reception Installation Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of TV/FM aerials, pre-amplifiers, broadband/channel amplifiers, distribution amplifiers, combining units, tee-units, splitter units, signal cables and TV/FM outlets, etc. for building and amenity projects.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

<sup>@</sup> Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

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<sup>@</sup> Not applicable for new application for admission. (Only applicable for existing probationary contractor)

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<sup>#</sup> See Remarks (1) on the end page of this Appendix.

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable	<p><b>The following shall only be applicable to existing probationary contractor:</b></p> <ol style="list-style-type: none"> <li>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</li> <li>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(3) The scope of work for this contract must fulfill all the following requirements:               <ol style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.1M; and</li> <li>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”; and</li> <li>(c) If the contract is a term contract, all of the above requirements 3(a) and 3(b) shall be fulfilled in one works order.</li> </ol> </li> <li>(4) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:               <ol style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the broadcast reception installation contractor for the project work.</li> </ol> </li> </ol>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <ol style="list-style-type: none"> <li>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</li> <li>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</li> <li>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</li> </ol> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <ol style="list-style-type: none"> <li>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</li> <li>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</li> <li>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(7) The applicant shall be able to arrange joint site inspections for the government’s examination of the quality and workmanship of the submitted job reference within normal office hours; and</li> <li>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:               <ol style="list-style-type: none"> <li>(a) Contract value of the work related to the</li> </ol> </li> </ol>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>category under application for inclusion exceeds \$0.25M; and</p> <p>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the broadcast reception installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry														
		<p><b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <p>(A) Electrician/BS Mechanic/Electronics Craftsman</p> <table border="0"> <tr> <td>Minimum score required</td> <td>20 marks</td> </tr> <tr> <td>Qualified Electrician/BS Mechanic/ Electronics Craftsman</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Electrician/BS Mechanic Craftsman</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Electrician/BS Mechanic/ Electronics Craftsman</td> <td>8 marks</td> </tr> </table> <p><b>3. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities, minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <a href="#">Annex 4</a> for list of typical equipment/tools and testing instruments required.</p> <p><b>4. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 10 m<sup>2</sup>. Documentary evidence</p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	20 marks	Qualified Electrician/BS Mechanic/ Electronics Craftsman	20 marks	Intermediate Electrician/BS Mechanic Craftsman	15 marks	Ordinary Electrician/BS Mechanic/ Electronics Craftsman	8 marks
Technician	1 no.															
Site supervisor	1 no.															
Draftsman	1 no.															
Minimum score required	20 marks															
Qualified Electrician/BS Mechanic/ Electronics Craftsman	20 marks															
Intermediate Electrician/BS Mechanic Craftsman	15 marks															
Ordinary Electrician/BS Mechanic/ Electronics Craftsman	8 marks															

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		(e.g. purchase/lease agreement) to prove right of use shall be produced.

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**Managing Department:** Architectural Services Department

**Works Category:** Burglar Alarm and Security Installation **Specialist Contractor**

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of central control station consisting of computer and peripherals, communication network, UPS system, equipment console and rack, deterrent system consisting of card access control, exit control lock, duress push button, tamper switch, detection system comprising of motion detector, magnetic door contact, glass break detector, surveillance system comprising of closed circuit television, digital video motion detector, watchman tour system, etc. where applicable for building and amenity projects.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

<sup>@</sup>Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

<sup>@</sup> Not applicable for new application for admission. (Only applicable for existing probationary contractor)

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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Page 234 of this Appendix

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable.	<p><b>The following shall only be applicable to existing probationary contractor:</b></p> <ol style="list-style-type: none"> <li>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</li> <li>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(3) The scope of work for this contract must fulfill all the following requirements:               <ol style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.5M; and</li> <li>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</li> <li>(c) If the contract is a term contract, all of the above requirements 3(a) and 3(b) shall be fulfilled in one works order.</li> </ol> </li> <li>(4) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:               <ol style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the burglar alarm and security installation contractor for the project work.</li> </ol> </li> </ol>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <ol style="list-style-type: none"> <li>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</li> <li>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</li> <li>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</li> </ol> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <ol style="list-style-type: none"> <li>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</li> <li>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</li> <li>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</li> <li>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:               <ol style="list-style-type: none"> <li>(a) Contract value of the work related to the</li> </ol> </li> </ol>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>category under application for inclusion exceeds \$1M; and</p> <p>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the burglar alarm and security installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Licensed Security Company engaged in Type III Security Work under Security and Guarding Services Ordinance, Cap. 460 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Electronics, Building Services or Electrical discipline) with adequate and relevant professional and project management experience. [This requirement may be waived with the applicant having adequate nos. of degree holder technicians stated below.]</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience. Degree holder Technician with minimum 5 years post-qualification experience.</p> <ul style="list-style-type: none"> <li>• Nil for applicant with Qualified Engineer.</li> <li>• 2 for applicant without Qualified Engineer.</li> </ul> <p>Site supervisor 1 no. Draftsman 1 no.</p> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <p>(A) Electrician/BS Mechanic/Electronics Craftsman</p> <p>Minimum score required 20 marks</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>Qualified Electrician/BS Mechanic/ Electronics Craftsman 20 marks</p> <p>Intermediate Electrician/BS Mechanic/ Electronics Craftsman 15 marks</p> <p>Ordinary Electrician/BS Mechanic/ Electronics Craftsman 8 marks</p> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:</p> <p>◇ Security Personnel (SP) holding Security Personnel Permit (Cat. D) issued under Security and Guarding Services Ordinance, Cap 460 – 2 nos. (minimum)</p> <p>The SP can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <sup>***</sup>(See Remarks on the end page of this Appendix) <span style="color: blue;">▼</span></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <b>Annex 5</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 10 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Be an authorized agent/distributor in HKSAR for the</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>major equipment to be offered. Documentary evidence such as authorized agency/distributorship agreements shall be available.</p> <p><u>24-hour Emergency Service Centre</u> Available for fault attendance. The service shall be effective, e.g. the fault call can be acknowledged immediately and maintenance personnel can arrive at the fault location within 1 hour.</p>

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Managing Department: Architectural Services Department

Works Category: Catering Equipment Installation Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of full range of electrical and gas cooking equipment, sinks and fixtures, exhaust hood, steam and hot water equipment, refrigeration and food storage facilities, etc. for use in commercial kitchen, restaurant and canteen in buildings and associated serving area, including cooker, cooking range, food warmer, steamer, fryer, hot plate, oven, water heater, sink, hot cabinet, freezer, food rack, kitchen work-top, water wash hood, gas water heater connected to mechanical exhaust system etc.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

<sup>@</sup>Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

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<sup>@</sup>Not applicable for new application for admission. (Only applicable for existing probationary contractor)

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<sup>#</sup> See Remarks (1) on the end page of this Appendix.

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable	<p><b>The following shall only be applicable to existing probationary contractor:</b></p> <ol style="list-style-type: none"> <li>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</li> <li>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(3) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</li> <li>(4) The scope of work for this contract must fulfill all the following requirements:               <ol style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.5M; and</li> <li>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</li> <li>(c) The contract shall be for new building project or for a completely renovated commercial kitchen in restaurant, canteen, etc. Partial renovation or fitting-out works in an existing commercial kitchen are not acceptable; and</li> <li>(d) If the contract is a term contract, all of the above requirements 4 (a) and 4 (c) shall be fulfilled in one works order.</li> </ol> </li> <li>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:               <ol style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> </ol> </li> </ol>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <ol style="list-style-type: none"> <li>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</li> <li>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</li> <li>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</li> </ol> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <ol style="list-style-type: none"> <li>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</li> <li>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</li> <li>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(7) All statutory submissions to Gas Authority and statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</li> <li>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job</li> </ol>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
	<p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the catering equipment installation contractor for the project work.</p>	<p>reference within normal office hours; and</p> <p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds \$1M; and</p> <p>(b) The contract shall cover major catering equipment installation related to the category; and</p> <p>(c) The contract shall be for new building project or for a completely renovated commercial kitchen in restaurant, canteen, etc. Partial renovation or fitting-out works in an existing commercial kitchen are not acceptable.</p> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the catering equipment installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry						
		<p>them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u> The applicant shall be</p> <ul style="list-style-type: none"> <li>◇ a Registered Gas Contractor registered under Gas Safety Ordinance, Cap. 51; and</li> <li>◇ a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</li> </ul> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1294 1045 1780 1117"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <p>(A) BS Mechanic/Mechanical Fitter/Electrician</p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.
Technician	1 no.							
Site supervisor	1 no.							
Draftsman	1 no.							

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>Minimum score required 20 marks</p> <p>Qualified BS Mechanic/Mechanical Fitter/Electrician 20 marks</p> <p>Intermediate BS Mechanic/Mechanical Fitter/Electrician 15 marks</p> <p>Ordinary BS Mechanic/Mechanical Fitter/Electrician 8 marks</p> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Registered Gas Installer (RGI) registered under Gas Safety Ordinance, Cap. 51. Gas Installation Work – 1 no. (minimum) (The RGI(s) shall hold licences covering gas installation work Class 1 to 7 collectively)</li> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</li> </ul> <p>The RGI and REW can be the Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <b>Annex 6</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 10 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>

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Managing Department : Highways Department

Works Category : Design, Manufacture and Installation of Glass (or Fibre) Reinforced Plastic Units Specialist Contractor

**Brief Scope of Category :**

The scope of work in this category covers the design, manufacture and installation of glass reinforced plastic units or plastic units reinforced with other fibre for highway structures works.

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## Direct Entry

**1. Job Experience**

Satisfactory completion of at least 3 projects in the design, manufacture and installation of glass (or fibre) reinforced plastic products in highway structures in the past 3 years, each with a value of \$ 0.2 M or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

[Not Applicable](#)

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**3. Top Management** <sup>\*(See Remarks on the end page of this Appendix)</sup>

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

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**4. Technical Staff**

Design staff with at least 3 years experience in the field of glass (or fibre) reinforced plastic.  
Local workforce capable of installing the glass (or fibre) reinforced plastic units.

**5. Plant and Equipment** <sup>\*\*\*(See Remarks on the end page of this Appendix)</sup>

- a. Mechanical fibre/resin mixer.
- b. Hoisting facility.
- c. Carpenter's equipment (saw, drill etc.).
- d. Heat curing chamber.
- e. Spray machine (chopped fabric, gelcoat etc.).
- f. Air compressor for spray gun.

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**6. Office/Workshop Facilities**

Local office in Hong Kong is required. The applicant must possess a factory with equipment listed above and adequate testing and quality control facilities.

**7. Training Facilities**

[Not Applicable](#)

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**8. Others**

Acceptable design, manufacturing and installation procedures and fully documented quality assurance system. Raw materials used must comply with relevant British Standards or other equivalent national standards. A certificate from an approved laboratory to confirm that the materials used meet the requirements stipulated in BS 2782 & BS 4549.

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Managing Department: Architectural Services Department

Works Category: Diesel Generator Installation Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of diesel generator and associated installations such as fuel tank, switchboard, cable, earthing etc.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

<sup>@</sup>Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

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<sup>@</sup> Not applicable for new application for admission. (Only applicable for existing probationary contractor)

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable.	<p><b>The following shall only be applicable to existing probationary contractor:</b></p> <ol style="list-style-type: none"> <li>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</li> <li>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(3) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</li> <li>(4) The scope of work for this contract must fulfill all the following requirements:               <ol style="list-style-type: none"> <li>(a) The rating of the diesel generator of the job reference shall be 300kVA or higher; and</li> <li>(b) The contract shall cover major scope of works as described in the "Brief Scope of Category"; and</li> <li>(c) If the contract is a term contract, all of the above requirements 4 (a) and 4 (b) shall be fulfilled in one works order.</li> </ol> </li> <li>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:               <ol style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the diesel generator</li> </ol> </li> </ol>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <ol style="list-style-type: none"> <li>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</li> <li>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</li> <li>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</li> </ol> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <ol style="list-style-type: none"> <li>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</li> <li>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</li> <li>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</li> <li>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</li> </ol>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
	installation contractor for the project work.	<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) The contract shall cover the scope of works as described in the "Brief Scope of Category"; and</li> <li>(b) The rating of the diesel generator of the job reference shall be 300kVA or higher.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the diesel generator installation contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(e) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof</li> </ul>

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A. Entry on Probation	B. Confirmation	C. Direct Entry														
		<p>provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical, Electrical or Building Services discipline) with adequate and relevant project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1294 914 1825 986"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <p>(A) Mechanical Fitter</p> <table data-bbox="1294 1173 1825 1265"> <tr> <td>Minimum score required</td> <td>20 marks</td> </tr> <tr> <td>Qualified Mechanical Fitter</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Mechanical Fitter</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Mechanical Fitter</td> <td>8 marks</td> </tr> </table>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.	Minimum score required	20 marks	Qualified Mechanical Fitter	20 marks	Intermediate Mechanical Fitter	15 marks	Ordinary Mechanical Fitter	8 marks
Technician	2 nos.															
Site supervisor	2 nos.															
Draftsman	1 no.															
Minimum score required	20 marks															
Qualified Mechanical Fitter	20 marks															
Intermediate Mechanical Fitter	15 marks															
Ordinary Mechanical Fitter	8 marks															

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>(B) Electrician</p> <p>Minimum score required 20 marks            Qualified Electrician 20 marks            Intermediate Electrician 15 marks            Ordinary Electrician 8 marks</p> <p><u>Statutory Registration</u>            The applicant shall have staff meeting the following statutory registration requirements:</p> <p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</p> <p>The REW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>***(See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities, minimum 1 no. CAD terminal.            Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <b>Annex 7</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 40 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u>            Preferably being an authorized agent in HKSAR for</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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**Managing Department:** Architectural Services Department

**Works Category:** Electrical and Mechanical Installation for Sewage Treatment and Screening Plant Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers design, supply, installation and maintenance of electrical and mechanical plant for sewage pumping stations, sewage screening & degritting plant and primary/secondary sewage treatment works.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$34 million

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(4) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds \$5M; and</p> <p>(b) The contract shall cover major scope of works as described in the "Brief Scope of Category"; and</p> <p>(c) If the contract is a term contract, all of the above requirements 4 (a) and 4 (b) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project.</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$5M; and</li> <li>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor’s authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</li> </ul>		<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$10M; and</li> <li>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</li> <li>(d) The aforementioned main contractor shall not be the electrical and mechanical installation contractor for sewage treatment and screening plant of the project work; and</li> <li>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor’s authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(f) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the</li> </ul>

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A. Entry on Probation	B. Confirmation	C. Direct Entry																				
<p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical or Electrical discipline) with adequate and relevant project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="107 997 604 1069"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>4 nos.</td> </tr> <tr> <td>Draftsman</td> <td>2 nos.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <table data-bbox="107 1204 604 1260"> <tr> <td>(A) Mechanical Fitter</td> <td></td> </tr> <tr> <td>Minimum score required</td> <td>30 marks</td> </tr> </table>	Technician	2 nos.	Site supervisor	4 nos.	Draftsman	2 nos.	(A) Mechanical Fitter		Minimum score required	30 marks		<p>concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical or Electrical discipline) with adequate and relevant project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1292 997 1792 1069"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>4 nos.</td> </tr> <tr> <td>Draftsman</td> <td>2 nos.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <table data-bbox="1292 1204 1792 1260"> <tr> <td>(A) Mechanical Fitter</td> <td></td> </tr> <tr> <td>Minimum score required</td> <td>30 marks</td> </tr> </table>	Technician	2 nos.	Site supervisor	4 nos.	Draftsman	2 nos.	(A) Mechanical Fitter		Minimum score required	30 marks
Technician	2 nos.																					
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Minimum score required	30 marks																					

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>Qualified Mechanical Fitter 20 marks Intermediate Mechanical Fitter 15 marks Ordinary Mechanical Fitter 8 marks</p> <p>(B) Electrician Minimum score required 30 marks Qualified Electrician 20 marks Intermediate Electrician 15 marks Ordinary Electrician 8 marks</p> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:                      ◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade B0 – 1 no. (minimum)                      ◇ A Competent Person (CP) appointed under the Factory &amp; Industrial Undertakings (Confined Spaces) Regulations, Cap. 59 as Personnel for working in confined spaces – 1 no. (minimum)                      ◇ Certified Worker (CW) appointed under the Factory &amp; Industrial Undertakings (Confined Spaces) Regulations, Cap. 59 as Personnel for working in confined spaces – 2 nos. (minimum)</p> <p>The CP, CW and REW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><u>Qualified Welder</u> Employ adequate nos. of Qualified Welder (QW)</p> <p>QW 1 no.</p> <p>The QW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p>		<p>Qualified Mechanical Fitter 20 marks Intermediate Mechanical Fitter 15 marks Ordinary Mechanical Fitter 8 marks</p> <p>(B) Electrician Minimum score required 30 marks Qualified Electrician 20 marks Intermediate Electrician 15 marks Ordinary Electrician 8 marks</p> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:                      ◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade B0 – 1 no. (minimum)                      ◇ A Competent Person (CP) appointed under the Factory &amp; Industrial Undertakings (Confined Spaces) Regulations, Cap. 59 as Personnel for working in confined spaces – 1 no. (minimum)                      ◇ Certified Worker (CW) appointed under the Factory &amp; Industrial Undertakings (Confined Spaces) Regulations, Cap. 59 as Personnel for working in confined spaces – 2 nos. (minimum)</p> <p>The CP, CW and REW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><u>Qualified Welder</u> Employ adequate nos. of Qualified Welder (QW)</p> <p>QW 1 no.</p> <p>The QW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p>
<p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities, minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be</p>		<p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities, minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>available. Refer <b>Annex 8</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 80 m<sup>2</sup> and the minimum workshop + storage area shall be 70 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>		<p>available. Refer <b>to Annex 8</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 80 m<sup>2</sup> and the minimum workshop + storage area shall be 70 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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**Managing Department:** Architectural Services Department

<b>Works Category:</b>	<b>Electrical Installation</b>	<b>Specialist Contractor</b>
<b>Group I:</b>	Contracts/Subcontracts up to HK\$ <u>2.3M</u>	
<b>Group II:</b>	Contracts/Subcontracts up to HK\$ <u>5.7M</u>	
<b>Group III:</b>	Contracts/Subcontracts of unlimited value	
<b>Brief Scope of Category:</b>		
The scope of work in this category covers the supply, installation and maintenance of low voltage electrical installation comprising incoming electricity supply, main and sub-main distribution system, final circuits, power points, lighting points, lighting fittings, electrical appliances, lightning protection, earthing system, etc. for building and amenity projects.		
<b>Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)</b>		
Probation to Group I:	Not probationary status	
Probation to Group II:	Eligible for the award of any number of Group I contracts/subcontracts; and a maximum of two Group II contracts/subcontracts	
Probation to Group III:	Eligible for the award of any number of Group I and Group II contracts/subcontracts; and a maximum of two Group III contracts/subcontracts provided that the total value of Group III work does not exceed \$20 million	

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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Group I A. Entry on Probation	Group II A. Entry on Probation	Group III A. Entry on Probation
Not Applicable	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>

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Group I	Group II	Group III
	<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds 50% Group II tender limit; and</li> <li>(b) The main incoming switchgear shall have rating of not less than 800A; and</li> <li>(c) The contract shall cover the entire electrical installation from the main incoming switchgear to the final circuits.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</li> <li>(d) The aforementioned main contractor shall not be the electrical installation contractor for the project work; and</li> <li>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor's authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(f) Notwithstanding the above, the Managing Department may seek references on the</li> </ul>	<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds 180% of Group II tender limit; and</li> <li>(b) The main incoming switchgear shall have rating of not less than 2500A or 1500 kVA; and</li> <li>(c) The contract shall cover the entire electrical installation from the main incoming switchgear to the final circuits, comprising co-ordination with building contractor and other building services / electrical and mechanical contractors; and</li> <li>(d) The contract shall be of a completely new building construction or a whole building refurbishment; and</li> <li>(e) At least one of these 2 contracts shall not be work for residential development or engineering plant building.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</li> <li>(d) The aforementioned main contractor shall not be the electrical installation contractor for the project work; and</li> </ul>

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Group I	Group II	Group III
	<p>applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p>Same requirements as stipulated for "Direct Entry"</p>	<p>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor's authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(f) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><u>Quality Management System Certification</u></p> <p>Quality Management System certificates issued under the rules of the Hong Kong Certification Body Accreditation Scheme (HKCAS) operated by the Hong Kong Accreditation Service (HKAS); i.e. bearing the HKCAS Accreditation Mark, and Quality Management System certificates bearing the accreditation mark of other accreditation bodies which are considered as having an equivalent standard by the Environment, Transport and Works Bureau.</p> <p>The scope of certification shall be relevant to the contractor list being applied for, e.g. "supply, installation and maintenance of electrical installation".</p>

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Group I	Group II	Group III																
	<p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p>Same requirements as stipulated for "Direct Entry"</p>	<p>If the scope of certification does not include "maintenance", the manual shall have relevant sections for maintenance work that shall include not only post contract service but also service for separate maintenance contract.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Electrical or Building Services discipline) with adequate and relevant project management experience</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1294 651 1868 724"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>4 nos.</td> </tr> <tr> <td>Draftsman</td> <td>2 nos.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of draftsmen in the following trades:</p> <table data-bbox="1294 810 1868 932"> <tr> <td>(A)Electrician</td> <td></td> </tr> <tr> <td>Minimum score required</td> <td>80 marks</td> </tr> <tr> <td>Qualified Electrician</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Electrician</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Electrician</td> <td>8 marks</td> </tr> </table>	Technician	2 nos.	Site supervisor	4 nos.	Draftsman	2 nos.	(A)Electrician		Minimum score required	80 marks	Qualified Electrician	20 marks	Intermediate Electrician	15 marks	Ordinary Electrician	8 marks
Technician	2 nos.																	
Site supervisor	4 nos.																	
Draftsman	2 nos.																	
(A)Electrician																		
Minimum score required	80 marks																	
Qualified Electrician	20 marks																	
Intermediate Electrician	15 marks																	
Ordinary Electrician	8 marks																	

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Group I	Group II	Group III
	<p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Same requirements as stipulated for “Direct Entry”</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Same requirements as stipulated for “Direct Entry”</p>	<p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade C0 – 1 no. (minimum)</li> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade C2 – 2 nos. (minimum)</li> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 5 nos. (minimum)</li> </ul> <p>The REW can be the Qualified Engineer, Technical Support Staff or Craftsman</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 2 nos. CAD terminals.</p> <p>Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 9</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 100 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>
<b>B. Confirmation</b>	<b>B. Confirmation</b>	<b>B. Confirmation</b>
Not Applicable	(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and	(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and

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Group I	Group II	Group III
	<p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</p> <p>(4) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds Group I tender limit; and</p> <p>(b) The main incoming switchgear shall have rating of not less than 800A; and</p> <p>(c) The contract shall cover the entire electrical installation from the main incoming switchgear to the final circuits, comprising co-ordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(d) The contract shall be of a completely new building construction or a whole building refurbishment; and</p> <p>(e) If the contract is a term contract, all of the above requirements 4 (a) to 4 (d) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The subcontract shall be signed between the</p>	<p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</p> <p>(4) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds Group II tender limit; and</p> <p>(b) The main incoming switchgear shall have rating of not less than 2500A or 1500 kVA; and</p> <p>(c) The contract shall cover the entire electrical installation from the main incoming switchgear to the final circuits, comprising co-ordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(d) The contract shall be of a completely new building construction or a whole building refurbishment; and</p> <p>(e) The contract shall not be work for residential development or engineering plant building; and</p> <p>(f) If the contract is a term contract, all of the above requirements 4 (a) to 4 (e) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p>

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Group I	Group II	Group III
	<p>applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</p> <p>(d) The aforementioned main contractor shall not be the electrical installation contractor for the project work.</p>	<p>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</p> <p>(d) The aforementioned main contractor shall not be the electrical installation contractor for the project work.</p>
C. Direct Entry	C. Direct Entry	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the</p>	<p>Not Applicable</p>

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Group I	Group II	Group III
<p>concerned project; and</p> <p>(7) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(9) The scope of work for each of these 2 contracts must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds 50% Group I tender limit; and</p> <p>(b) The main incoming switchgear shall have rating of not less than 400A.</p> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</p> <p>(d) The aforementioned main contractor shall not be the electrical installation contractor for the project work; and</p> <p>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor's authorized signatory to</p>	<p>concerned project; and</p> <p>(7) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(9) The scope of work for each of these 2 contracts must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds 50% Group II tender limit; and</p> <p>(b) The main incoming switchgear shall have rating of not less than 800A; and</p> <p>(c) The contract shall cover the entire electrical installation from the main incoming switchgear to the final circuits, comprising co-ordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(d) The contract shall be of a completely new building construction or a whole building refurbishment.</p> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The subcontract shall be signed between the applicant and the main contractor which is the</p>	

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Group I	Group II	Group III
<p>confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(f) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p>	<p>company awarded with the direct contract by the employer of the concerned project; and</p> <p>(d) The aforementioned main contractor shall not be the electrical installation contractor for the project work; and</p> <p>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor's authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(f) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p>	

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Group I	Group II	Group III
<p>Technician 1 no. Site supervisor 1 no. Draftsman 1 no.</p> <p><u>Craftsman</u> Employ adequate nos. of craftsmen in the following trades:</p> <p>(A) Electrician Minimum score required 20 marks Qualified Electrician 20 marks Intermediate Electrician 15 marks Ordinary Electrician 8 marks</p> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:</p> <p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade B0 – 1 no. (minimum)</p> <p>The REW can be the Technical Support Staff or Craftsman</p> <p><b>4. Plant and Equipment</b> <small>***<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal.</p> <p>Adequate nos. of calibrated testing instruments and equipment/ tools for carrying out installation, operation, maintenance and testing/ commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <b>Annex 9</b> for list of typical equipment/tools and testing instruments required.</p>	<p>Technician 2 nos. Site supervisor 2 nos. Draftsman 1 no.</p> <p><u>Craftsman</u> Employ adequate nos. of craftsmen in the following trades:</p> <p>(A) Electrician Minimum score required 40 marks Qualified Electrician 20 marks Intermediate Electrician 15 marks Ordinary Electrician 8 marks</p> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:</p> <p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade B0 – 1 no. (minimum) ◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade B2 – 1 no. (minimum) ◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 2 nos. (minimum)</p> <p>The REW can be the Technical Support Staff or Craftsman</p> <p><b>4. Plant and Equipment</b> <small>***<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal.</p> <p>Adequate nos. of calibrated testing instruments and equipment/ tools for carrying out installation, operation, maintenance and testing/ commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <b>Annex 9</b> for list of typical equipment/tools and testing instruments required.</p>	

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Group I	Group II	Group III
<p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 10 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>	<p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 60 m<sup>2</sup> and the minimum workshop + storage area shall be 15 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>	

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Managing Department: Architectural Services Department

<b>Works Category:</b>	<u>Electronic Timing and Display Installation</u>	<b>Specialist Contractor</b>
<b>Brief Scope of Category:</b>		
The scope of work in this category covers the supply, installation and maintenance of electronic scoreboard, electronic timing system, time and temperature display system, electronic message system etc. at different venues.		
<b>Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)</b>		
Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million		

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.2M; and</p> <p>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</p> <p>(c) If the contract is a term contract, all of the above requirements 3 (a) and 3 (b) shall be fulfilled in one works order.</p> <p>(4) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the electronic timing and display Installation contractor for the project work.</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage.</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>category under application for inclusion exceeds \$0.2M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the electronic timing and display installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p>		<p>\$0.5M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the electronic timing and display installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry																								
<p><b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of Electronics Craftsman</p> <table border="0"> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Electronics Craftsman</td> <td>20 marks</td> </tr> <tr> <td>Ordinary Electronics Craftsman</td> <td>10 marks</td> </tr> </table> <p><b>3. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 10</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>4. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>5. Others</b></p> <p><u>Authorized Agency</u></p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	40 marks	Qualified Electronics Craftsman	20 marks	Ordinary Electronics Craftsman	10 marks		<p><b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of Electronics Craftsman</p> <table border="0"> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Electronics Craftsman</td> <td>20 marks</td> </tr> <tr> <td>Ordinary Electronics Craftsman</td> <td>10 marks</td> </tr> </table> <p><b>3. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 10</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>4. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>5. Others</b></p> <p><u>Authorized Agency</u></p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	40 marks	Qualified Electronics Craftsman	20 marks	Ordinary Electronics Craftsman	10 marks
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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>		<p>Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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Managing Department : Water Supplies Department

Works Category : Fabrication of Steel Pipe Specials

Specialist Contractor

**Brief Scope of Category :**

The scope of work in this category covers fabrication of mild steel pipe specials of a size up to that shown below with protective coatings as specified in **Annex 11** for large waterworks projects:-

- a. 1200 mm dia. x 1200 mm dia. x 45<sup>o</sup> branch
- b. 1200 mm dia. x 2000 mm length
- c. 1200 mm dia. x 1000 mm taper
- d. 1200 mm dia. blank flange

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## Direct Entry

**1. Job Experience**

The contractor should possess at least 5 years experience in the fabrication of steel pipe specials for large Waterworks projects including provision of their internal and external protections. The contractor must provide supporting documents to show that steel pipe specials meeting WSD's requirements have been manufactured in his previous projects.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

[Not Applicable](#)

删除: NA

**3. Top Management** \*(See Remarks on the end page of this Appendix)

One of the managers should possess minimum qualification of a Higher Certificate in Mechanical/Production Engineering, or equivalent with at least 5 years relevant experience.

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**4. Technical Staff**

A minimum of 2 principal technical persons and 10 skilful workers for carrying out the fabrication work. At least one of the technical persons should possess minimum qualification of a Higher Certificate in Mechanical/Production Engineering or equivalent and with at least 5 years relevant experience.

**5. Plant and Equipment** \*\*\*(See Remarks on the end page of this Appendix)

[Not Applicable](#)

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**6. Office/Workshop Facilities**

The contractor should have a workshop in Hong Kong equipped with sufficient and well maintained machinery, equipment, tools and lifting facilities for fabricating, testing and handling steel pipe specials up to 1200mm in diameter. The contractor should allow inspection of all workshop facilities by Government representatives.

**7. Training Facilities**

[Not Applicable](#)

删除: NA

**8. Others**

The contractor should provide full details of his previous fabrication work to demonstrate his experience and capability.

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Managing Department : Water Supplies Department

Works Category : Fabrication of Unfired Pressure Vessels

Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers design, supply, manufacture, inspection & testing, painting and delivery to the site of steel unfired pressure vessels and associated fittings.

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## Direct Entry

**1. Job Experience**

Possess at least 5 years experience in the fabrication of unfired pressure vessels for large Waterworks projects including provision of their internal and external protection. The contractor must provide supporting documents to show that unfired pressure vessels meeting WSD's requirements have been manufactured in his previous projects.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

Not Applicable

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**3. Top Management** \*(See Remarks on the end page of this Appendix)

One of the managers and principal technical staff should possess minimum qualification of Higher Certificate in Mechanical / Production Engineering or equivalent with at least 5 years relevant experience.

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**4. Technical Staff**

Minimum of 2 qualified technical persons as well as sufficient skilful workers for carrying out the fabrication work. At least one of the qualified technical persons should possess minimum qualification of Higher Certificate in Mechanical/Production Engineering or equivalent with at least 5 years relevant experience.

**5. Plant and Equipment** \*\* (See Remarks on the end page of this Appendix)

Not Applicable

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**6. Office/Workshop Facilities**

A workshop in Hong Kong equipped with sufficient and well maintained machinery, equipment, tools and lifting facilities for fabricating, testing and handling unfired pressure vessels up to 3500mm in diameter as detailed in the **Annex 12**. The contractor should allow inspection of all workshop facilities by Government representatives.

**7. Training Facilities**

Not Applicable

刪除: NA

**8. Others**

The contractor should provide full details of his previous fabrication work to demonstrate his experience and capability.

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**Managing Department:** Architectural Services Department

<b>Works Category:</b>	<b>Fire Service Installation</b>	<b>Specialist Contractor</b>
<b>Group I:</b>	Contracts/Subcontracts up to HK\$2.3M	
<b>Group II:</b>	Contracts/Subcontracts of unlimited value	
<b>Brief Scope of Category:</b>		
The scope of work in this category covers the supply, installation and maintenance of fire service installations comprising sprinkler system, FH/HR system, manual and automatic fire alarm system, etc. for building and amenity projects.		
<b>Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)</b>		
<b>@</b> Probation to Group I	: Eligible for the award of a maximum of two Group I contracts/subcontracts	
Probation to Group II	: Eligible for the award of any number of Group I contracts/subcontracts; and a maximum of two Group II contracts/subcontracts provided that the total value of Group II works does not exceed \$8.2 million	

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**@** Not applicable for new application for admission. (Only applicable for existing Group I probationary contractor)

**#** [See Remarks \(1\) on the end page of this Appendix.](#)

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Page 234 of this Appendix

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Group I A. Entry on Probation	Group II A. Entry on Probation
Not Applicable	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as Form FSI 314, Form FSI 501, Form FSI 251, etc. shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds 180% of Group I tender limit; and</p> <p>(b) The contract shall cover major scope of works as described in the "Brief Scope of Category"; and</p> <p>(c) The contract shall be of a completely new building construction project or a whole building refurbishment project.</p>

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Group I	Group II
	<p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</li> <li>(d) The aforementioned main contractor shall not be the fire service installation contractor for the project work; and</li> <li>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor’s authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(f) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</li> </ul> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be</p> <ul style="list-style-type: none"> <li>✧ a Registered Fire Service Installation Contractor Class 1 &amp; 2 registered under Fire Service Ordinance, Cap. 95; and</li> <li>✧ a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and</li> </ul> <p>have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><u>Quality Management System Certification</u></p> <p>Quality Management System certificates issued under the rules of the Hong Kong Certification Body Accreditation Scheme (HKCAS) operated by the Hong Kong</p>

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Group I	Group II																										
	<p>Accreditation Service (HKAS); i.e. bearing the HKCAS Accreditation Mark, and Quality Management System certificates bearing the accreditation mark of other accreditation bodies which are considered as having an equivalent standard by the Environment, Transport and Works Bureau.</p> <p>The scope of certification shall be relevant to the contractor list being applied for, e.g. “supply, installation and maintenance of fire service installation”.</p> <p>If the scope of certification does not include “maintenance”, the manual shall have relevant sections for maintenance work that shall include not only post contract service but also service for separate maintenance contract.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. Qualified Engineer (Mechanical, Building Services or Electrical discipline) with adequate and relevant professional and project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1003 715 1841 790"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>4 nos.</td> </tr> <tr> <td>Draftsman</td> <td>2 nos.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <table data-bbox="1003 901 1841 1165"> <tr> <td>(A) Plumber/ FS Mechanic</td> <td></td> </tr> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Plumber/FS Mechanic</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Plumber/FS Mechanic</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Plumber/FS Mechanic</td> <td>8 marks</td> </tr> <tr> <td>(B) Electrician</td> <td></td> </tr> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Electrician</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Electrician</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Electrician</td> <td>8 marks</td> </tr> </table> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Class 3 Registered Fire Service Installation Contractor (RFSIC) registered under</li> </ul>	Technician	2 nos.	Site supervisor	4 nos.	Draftsman	2 nos.	(A) Plumber/ FS Mechanic		Minimum score required	40 marks	Qualified Plumber/FS Mechanic	20 marks	Intermediate Plumber/FS Mechanic	15 marks	Ordinary Plumber/FS Mechanic	8 marks	(B) Electrician		Minimum score required	40 marks	Qualified Electrician	20 marks	Intermediate Electrician	15 marks	Ordinary Electrician	8 marks
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Intermediate Electrician	15 marks																										
Ordinary Electrician	8 marks																										

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Group I	Group II
	<p>Fire Service Ordinance, Cap. 95 – 1 no. (minimum)</p> <ul style="list-style-type: none"> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</li> <li>◇ Licensed Plumber (LP) registered under Waterworks Ordinance, Cap. 102. –1 no. (minimum)</li> </ul> <p>The LP, REW and RFSIC can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 2 nos. CAD terminals. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 13</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 80 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>
B. Confirmation	B. Confirmation
<p><b>The following shall only be applicable to existing probationary contractor:</b></p> <ol style="list-style-type: none"> <li>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</li> <li>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(3) All statutory forms such as Form FSI 314, Form FSI 501, Form FSI 251, etc. shall be issued under the name of the applicant; and</li> <li>(4) The scope of work for this contract must fulfill all the following requirements: <ol style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for confirmation exceeds 50% of Group I tender limit; and</li> <li>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”; and</li> <li>(c) The contract shall be of a completely new building construction or a whole building refurbishment; and</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</li> <li>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(3) All statutory forms such as Form FSI 314, Form FSI 501, Form FSI 251, etc. shall be issued under the name of the applicant; and</li> <li>(4) The scope of work for this contract must fulfill all the following requirements: <ol style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for confirmation exceeds Group I tender limit; and</li> <li>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”; and</li> <li>(c) The contract shall be of a completely new building construction or a whole building refurbishment; and</li> <li>(d) If the contract is a term contract, all of the above requirements 4 (a) to 4 (c) shall</li> </ol> </li> </ol>

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Group I	Group II
<p>(d) If the contract is a term contract, all of the above requirements 4 (a) to 4 (c) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</p> <p>(d) The aforementioned main contractor shall not be the fire service installation contractor for the project work.</p>	<p>be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</p> <p>(d) The aforementioned main contractor shall not be the fire service installation contractor for the project work.</p>
C. Direct Entry	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and</p>	<p>Not Applicable</p>

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Group I	Group II
<p>the employer of the concerned project; and</p> <p>(7) All statutory forms such as Form FSI 314, Form FSI 501, Form FSI 251, etc. shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government’s examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds 50% Group I tender limit; and</li> <li>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”; and</li> <li>(c) The contract shall be of a completely new building construction project or a whole building refurbishment project.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</li> <li>(d) The aforementioned main contractor shall not be the fire service installation contractor for the project work; and</li> <li>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor’s authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(f) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</li> </ul>	

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Group I	Group II																										
<p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be</p> <ul style="list-style-type: none"> <li>◇ a Registered Fire Service Installation Contractor Class 1 &amp; 2 registered under Fire Service Ordinance, Cap. 95; and</li> <li>◇ a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and</li> </ul> <p>have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman with adequate relevant experience in the following trades</p> <table border="0"> <tr> <td>(A) Plumber/ FS Mechanic</td> <td></td> </tr> <tr> <td>    Minimum score required</td> <td>20 marks</td> </tr> <tr> <td>    Qualified Plumber/FS Mechanic</td> <td>20 marks</td> </tr> <tr> <td>    Intermediate Plumber/FS Mechanic</td> <td>15 marks</td> </tr> <tr> <td>    Ordinary Plumber/FS Mechanic</td> <td>8 marks</td> </tr> <tr> <td>(B) Electrician</td> <td></td> </tr> <tr> <td>    Minimum score required</td> <td>20 marks</td> </tr> <tr> <td>    Qualified Electrician</td> <td>20 marks</td> </tr> <tr> <td>    Intermediate Electrician</td> <td>15 marks</td> </tr> <tr> <td>    Ordinary Electrician</td> <td>8 marks</td> </tr> </table> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.	(A) Plumber/ FS Mechanic		Minimum score required	20 marks	Qualified Plumber/FS Mechanic	20 marks	Intermediate Plumber/FS Mechanic	15 marks	Ordinary Plumber/FS Mechanic	8 marks	(B) Electrician		Minimum score required	20 marks	Qualified Electrician	20 marks	Intermediate Electrician	15 marks	Ordinary Electrician	8 marks	
Technician	2 nos.																										
Site supervisor	2 nos.																										
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(B) Electrician																											
Minimum score required	20 marks																										
Qualified Electrician	20 marks																										
Intermediate Electrician	15 marks																										
Ordinary Electrician	8 marks																										

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Group I	Group II
<p>◇ Class 3 Registered Fire Service Installation Contractor (RFSIC) registered under Fire Service Ordinance, Cap. 95 – 1 no. (minimum)</p> <p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</p> <p>◇ Licensed Plumber (LP) registered under Waterworks Ordinance, Cap. 102. – 1 no. (minimum)</p> <p>The LP, REW and RFSIC can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <sup>***(See Remarks on the end page of this Appendix)</sup></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates where applicable for testing instruments shall be available. Refer to <a href="#">Annex 13</a> for list of typical equipment /tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 15 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>	

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**Managing Department:** Architectural Services Department

<b>Works Category:</b> <u>Fountain Installation</u> <b>Specialist Contractor</b>
<b>Brief Scope of Category:</b>  The scope of work in this category covers the supply, installation and maintenance of equipment, piping and fittings for water treatment of fountain pool such as water circulation, filtration, pH control, chemical treatment, fountain lighting installation, etc.

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable	Not Applicable	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$1M; and</li> <li>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the fountain installation contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof</li> </ul>

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A. Entry on Probation	B. Confirmation	C. Direct Entry																						
		<p>provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1294 742 1825 813"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <p>(A) Plumber/ BS Mechanic</p> <table data-bbox="1294 957 1825 1069"> <tr> <td>Minimum score required</td> <td>20 marks</td> </tr> <tr> <td>Qualified Plumber/BS Mechanic</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Plumber/BS Mechanic</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Plumber/BS Mechanic</td> <td>8 marks</td> </tr> </table> <p>(B) Electrician</p> <table data-bbox="1294 1101 1825 1212"> <tr> <td>Minimum score required</td> <td>20 marks</td> </tr> <tr> <td>Qualified Electrician</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Electrician</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Electrician</td> <td>8 marks</td> </tr> </table> <p><u>Statutory Registration</u></p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.	Minimum score required	20 marks	Qualified Plumber/BS Mechanic	20 marks	Intermediate Plumber/BS Mechanic	15 marks	Ordinary Plumber/BS Mechanic	8 marks	Minimum score required	20 marks	Qualified Electrician	20 marks	Intermediate Electrician	15 marks	Ordinary Electrician	8 marks
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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>The applicant shall have staff meeting the following statutory registered requirements:</p> <ul style="list-style-type: none"> <li>✧ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</li> <li>✧ Licensed Plumber (LP) registered under Waterworks Ordinance, Cap. 102 - 1 no. (minimum)</li> </ul> <p>The LP and REW can be the Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminals. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 14</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 10 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>

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Managing Department : Civil Engineering and Development Department

Works Category : Ground Investigation Field Work Specialist Contractor

Group I : Contracts/Subcontracts up to HK\$ 2.3M

Group II : Contracts/Subcontracts of unlimited value

**Brief Scope of Categories :**

The scope of work in this category covers ground investigation field work for Government projects.

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Group I	Group II
A. Direct Entry	A. Direct Entry
<p><b>1. Job Experience</b> Must be able to provide references to ground investigation works (each of value exceeding HK\$0.5M) carried out by the applicant for at least 5 projects in Hong Kong in the 3 years preceding the application and receive no adverse reports, on enquiry by CEDD. These performance reports must be prepared by at least 3 different engineering consultants who have supervised the works.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b> Quality Management System certificates issued under the rules of the Hong Kong Certification Body Accreditation Scheme (HKCAS) operated by the Hong Kong Accreditation Service (HKAS); i.e. bearing the HKCAS Accreditation Mark, and Quality Management System certificates bearing the accreditation mark of other accreditation bodies which are considered as having an equivalent standard by the Environment, Transport and Works Bureau.</p> <p><b>3. Top Management</b> <small>*(See Remarks on the end page of this Appendix)</small> <u>Not Applicable</u></p> <p><b>4. Technical Staff</b> Must employ sufficient full-time approved personnel who satisfy the minimum requirements as given in <b>Annex 15</b>.</p> <p><b>5. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small> Must own at least four rigs in Hong Kong, and all of them shall be capable of drilling at least 40m through soil or rock. Must own equipment capable of obtaining soil and rock samples, carrying out insitu tests (including SPT, GCO probing, impression packer, rising, falling and constant head permeability, packer (water adsorption), and vane shear) and installing standpipe piezometers (see the minimum requirements on equipment in <b>Annex 16</b>). All equipment should be calibrated and subject to periodic recalibration and maintenance.</p>	<p>Must be able to provide references to ground investigation works (each of value exceeding HK\$0.5M) carried out by the applicant for at least 5 projects in Hong Kong in the 3 years preceding the application and receive no adverse reports, on enquiry by CEDD. These performance reports must be prepared by at least 3 different engineering consultants who have supervised the works.</p> <p>Quality Management System certificates issued under the rules of the Hong Kong Certification Body Accreditation Scheme (HKCAS) operated by the Hong Kong Accreditation Service (HKAS); i.e. bearing the HKCAS Accreditation Mark, and Quality Management System certificates bearing the accreditation mark of other accreditation bodies which are considered as having an equivalent standard by the Environment, Transport and Works Bureau.</p> <p><u>Not Applicable</u></p> <p>Must employ sufficient full-time approved personnel who satisfy the minimum requirements as given in <b>Annex 15</b>.</p> <p>Must own at least ten rigs in Hong Kong capable of drilling at least 40m through soil or rock, and at least two of them shall be capable of drilling vertical or inclined holes up to 150m through soil or rock. Must own equipment capable of obtaining soil and rock samples, carrying out insitu tests (including SPT, GCO probing, impression packer, rising, falling and constant head permeability, packer (water adsorption), and vane shear) and installing standpipe piezometers (see the minimum requirements on equipment in <b>Annex 16</b>). All equipment should be calibrated and subject to periodic recalibration and maintenance.</p>

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Group I	Group II
<p><b>6. Office/Workshop Facilities</b> All applicants must possess or set up in Hong Kong a place of business.</p> <p><b>7. Training Facilities</b> <u>Not Applicable</u></p> <p><b>8. Others</b> Must have the managerial, professional, technical and other support staff resources to carry out Government contracts on ground investigation. Must have adequate safety and health provisions and measures in accordance with the spirit of Chapter 3 of the Construction Site Safety Manual (CSSM) (Works Bureau). Proper documentation to illustrate this must be available. Must employ at least on a part-time basis one safety officer registered in accordance with the Factories and Industrial Undertakings (Safety Officers and Safety Supervisors) Regulation (FIU(SO&amp;SS)R) with a minimum of 3 years of relevant experience. Must demonstrate competence in carrying out drilling, excavation, sampling, testing, recording of information, description of soil and rock and reporting to CEDD standards. Must maintain HOKLAS (Hong Kong Laboratory Accreditation Scheme) accreditation for selected tests and procedures of ground investigation when the accreditation for these is available from HOKLAS.</p>	<p>All applicants must possess or set up in Hong Kong a place of business.</p> <p><u>Not Applicable</u></p> <p>Must have the managerial, professional, technical and other support staff resources to carry out large Government contracts on ground investigation. Must have a proper safety management system and an adequate Safety Plan in accordance with the requirements of Chapter 3 of the CSSM. Must employ on a full-time basis at least one safety officer registered in accordance with the FIU(SO&amp;SS)R and one safety supervisor, each with a minimum of 3 years of relevant experience. Must demonstrate competence in carrying out drilling, excavation, sampling, testing, recording of information, description of soil and rock and reporting to CEDD standards. Must maintain HOKLAS (Hong Kong Laboratory Accreditation Scheme) accreditation for selected tests and procedures of ground investigation when the accreditation for these is available from HOKLAS.</p>
	<b>B. Entry by Promotion</b>
	Same as that required for "Direct Entry".

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Managing Department: Architectural Services Department

<b>Works Category:</b>	<u>Industrial Type Electrical Installation</u>	<b>Specialist Contractor</b>
 <b>Brief Scope of Category:</b>		
<p>The scope of work in this category covers the supply, installation and maintenance of electrical installations that are of high voltage or in specialized locations, typical installations include those in airport, highway, subway, tunnel, workshop, sewage treatment plant, pumping station, mechanical handling system etc., and in industrial environment.</p>		
 <b>Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)</b>		
<p>Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million</p>		

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, including high voltage installation, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</p> <p>(4) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.5M; and</p> <p>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</p> <p>(c) If the contract is a term contract, all of the above requirements 4 (a) and 4 (b) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the industrial type electrical installation contractor for the</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, including high voltage installation, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$0.5M; and</li> <li>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category".</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the industrial type electrical installation contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(e) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or</li> </ul>	<p>project work.</p>	<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$1M; and</li> <li>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category" and at least one of the 2 contracts shall include high voltage electrical installations.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the industrial type electrical installation contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(e) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities</li> </ul>

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A. Entry on Probation	B. Confirmation	C. Direct Entry												
<p>confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Electrical discipline) with adequate and relevant professional and project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0" data-bbox="107 1053 604 1125"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.		<p>from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Electrical discipline) with adequate and relevant professional and project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0" data-bbox="1292 1053 1792 1125"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.
Technician	2 nos.													
Site supervisor	2 nos.													
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Technician	2 nos.													
Site supervisor	2 nos.													
Draftsman	1 no.													

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(A) Electrician</p> <p>Minimum score required                      40 marks  Qualified Electrician                            20 marks  Intermediate Electrician                        15 marks  Ordinary Electrician                              8 marks</p> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade C2 – 1 no. (minimum)</li> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade H2 – 1 no. (minimum)</li> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 3 nos. (minimum)</li> </ul> <p>The REW can be the Qualified Engineer, Technical Support Staff or Craftsman</p>		<p>(A) Electrician</p> <p>Minimum score required                      40 marks  Qualified Electrician                            20 marks  Intermediate Electrician                        15 marks  Ordinary Electrician                              8 marks</p> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade C2 – 1 no. (minimum)</li> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade H2 – 1 no. (minimum)</li> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 3 nos. (minimum)</li> </ul> <p>The REW can be the Qualified Engineer, Technical Support Staff or Craftsman</p>
<p><b>4. Plant and Equipment</b> <sup>**</sup>(See Remarks on the end page of this Appendix)</p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal.  Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <b>Annex 17</b> for list of typical equipment/tools and testing instruments</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 40 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use</p>		<p><b>4. Plant and Equipment</b> <sup>**</sup>(See Remarks on the end page of this Appendix)</p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal.  Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <b>Annex 17</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 40 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>		<p>shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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Managing Department : Architectural Services Department

Works Category : Land Piling Specialist Contractor

Group I : Contracts/Subcontracts up to HK\$ 3.4 M

Group II : Contracts/Subcontracts of unlimited value

**Brief Scope of Category**

The scope of work in this category covers design, supply and installation of registered piling systems on land.

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<b>Group I</b>	<b>Group II</b>
<b>A. Direct Entry</b>	<b>A. Direct Entry</b>
<p><b>1. Job Experience</b></p> <p>a) At least 3 small to medium size local projects (below \$3M each) for each system.</p> <p>b) The projects must be completed within the past 5 years.</p> <p>c) Experience as main contractor.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b> The applicant shall be a Registered Specialist Contractor in the Foundation Sub-register under Buildings Ordinance, Cap. 123.</p> <p><b>3. Top Management</b> <sup>*(See Remarks on the end page of this Appendix)</sup> At least one member of the resident top management shall have a minimum of three years local experience in managing a construction firm obtained in the past five years.</p> <p><b>4. Technical Staff</b> At least one person with the following qualifications :</p> <p>a) Higher Certificate in Structural/Civil Engineering from a Hong Kong polytechnic, a Hong Kong recognized training institution or equivalent and two years local working experience in piling works; or</p> <p>b) Ordinary Certificate in Structural/Civil Engineering from a Hong Kong polytechnic, a Hong Kong recognized training institution or equivalent and three years local working experience in piling works.</p> <p><b>5. Plant and Equipment</b> <sup>** (See Remarks on the end page of this Appendix)</sup> Appropriate equipment for each system. (At least one set for each system).</p>	<p>a) At least 3 medium/large size local projects (over \$3M each) for each system.</p> <p>b) The projects must be completed within the past 5 years.</p> <p>c) Experience as main contractor.</p> <p>The applicant shall be a Registered Specialist Contractor in the Foundation Sub-register under Buildings Ordinance, Cap. 123.</p> <p>Quality Management System certificates issued under the rules of the Hong Kong Certification Body Accreditation Scheme (HKCAS) operated by the Hong Kong Accreditation Service (HKAS); i.e. bearing the HKCAS Accreditation Mark, and Quality Management System certificates bearing the accreditation mark of other accreditation bodies which are considered as having an equivalent standard by the Environment, Transport and Works Bureau.</p> <p>The scope of certification shall be relevant to the piling system under application.</p> <p>At least one member of the resident top management shall have a minimum of five years local experience in managing a construction firm obtained in the past eight years.</p> <p>At least two persons with a relevant degree from a Hong Kong university or equivalent with at least five years post-graduate local experience in piling works.</p> <p>Appropriate equipment for each system. (At least one set for each system).</p>

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Group I	Group II
<p><b>6. Office/Workshop Facilities</b> Local office required. Yard facilities available.</p>	<p>Local office required. Yard facilities available.</p>
<p><b>7. Training Facilities</b> <u>Not Applicable</u></p>	<p><u>Not Applicable</u></p>
<p><b>8. Others</b> Piling system to be registered</p> <ul style="list-style-type: none"> <li>a) Method statement.</li> <li>b) Typical calculations.</li> <li>c) Acceptable references.</li> <li>d) Satisfactory demonstration on site.</li> </ul>	<p>Piling system to be registered</p> <ul style="list-style-type: none"> <li>a) Method statement.</li> <li>b) Typical calculations.</li> <li>c) Acceptable references.</li> <li>d) Satisfactory demonstration on site.</li> </ul>
	<p><b>B. Entry by Promotion</b></p>
	<p>When the contractor has completed at least 3 numbers medium/large size local projects of value above \$3M each with good references.</p>

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**Managing Department :** Lands Department

**Works Category :** Land, Engineering and Hydrographic Survey Services **Specialist Contractor**

**Brief Scope of Category :**

The scope of work in this category covers the provision of land, engineering and hydrographic survey services.

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## Direct Entry

**1. Job Experience**

No requirement.

Past experience on government projects is used as reference in tender evaluation and selection, but not for entry requirement.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

No requirement.

However, endorsement such as ISO 9001 Certification, will be used as reference in tender evaluation and selection.

**3. Top Management** <sup>\*(See Remarks on the end page of this Appendix)</sup>

At least one senior member of the firm's permanent full time staff should be a professional member of the HKIS (Land Survey Division) or approved equivalent, with minimum 2 years' post qualification local experience.

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**4. Technical Staff**

A minimum of two survey technicians should possess ordinary certificate or higher qualification in land or engineering surveying or approved equivalent with minimum one year's local land survey experience.

**5. Plant and Equipment** <sup>\*\* (See Remarks on the end page of this Appendix)</sup>

The firm should possess some basic equipment such as theodolite, total station, level, EDM, computer system and transport facilities.

Special equipment such as echo sounder, laser level, GPS system etc. will be an asset in bidding tender for special survey services.

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**6. Office/Workshop Facilities**

Not Applicable

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**7. Training Facilities**

Not Applicable

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**8. Others**

Not Applicable

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Managing Department : Architectural Services Department

**Works Category** : Landscaping **Specialist Contractor**

**Class I** : General Landscape Work

**Group I** : Contracts/Subcontracts of value up to HK\$2.3M

**Group II** : Contracts/Subcontracts of unlimited value

**Brief Scope of Category/Class :**

General Landscape Works includes all three types of:

- (a) landscape softworks (except hydroseeding) such as soiling, minor earthworks, turfing, sprigging, seeding and the supply, transplanting or planting of all types of plant material (including ground covers, tress, palms, shrubs, herbaceous, etc.) and subsequent establishment works;
- (b) horticultural and arboricultural maintenance works to vegetation, such as regular inspections of the vegetation and applications of routine maintenance operations to keep the vegetation in healthy growth; identification of plant disorders and application of appropriate treatments after diagnosis such as soil water and nutrient management, pest and disease control, thinning and pruning; installation and maintenance of tree support and protection systems such as cabling, bracing, propping and lightning protection; and tree risk assessment and management; and
- (c) landscape hardworks such as tree guards, tree grilles, tree rings, paving, planters, dwarf walls, steps, fencing, outdoor furniture, pergolas and pavilions.

**Definition of Probationary Status<sup>#</sup>**

Probation to Group I : Eligible for the award of one contract/subcontract at any one time of value up to \$2.3 million

Probation to Group II : Eligible for the award of any number of Group I contracts/subcontracts, plus one contract/subcontract of value exceeding \$2.3 million

<sup>#</sup> See Remarks (1) on the end page of this Appendix.

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Group I	Group II
A. Entry On Probation	A. Entry On Probation
<p><b>1. Job Experience</b>  <u>Completed satisfactorily at least three relevant contracts/subcontracts of total value of the landscape softworks exceeding \$4M within the past 5 years. Job experience in all three types of the General Landscape Works within the past five years.</u></p>	<p><u>Completed satisfactorily at least three relevant government contracts/1<sup>st</sup> tier Government subcontracts of total value of the General Landscape Works exceeding \$6M within the past 5 years, including at least two public works contracts/1<sup>st</sup> tier Government subcontracts of total value of landscape softworks exceeding \$3M. Job experience in all three types of the General Landscape Works within the past five years.</u></p>
<p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b>  <u>Not Applicable.</u></p>	<p><u>Not Applicable.</u></p>
<p><b>3. Top Management</b> <small>*(See Remarks on the end page of this Appendix)</small>  <u>Not Applicable.</u></p>	<p><u>At least one top management staff with more than five years of relevant working experience gained in Hong Kong, who can be the same person as the horticulturist or the tree specialist.</u></p>
<p><b>4. Technical Staff</b>  <u>See Annex 35.</u></p>	<p><u>See Annex 35.</u></p>
<p><b>5. Plant and Equipment</b> <small>***(See Remarks on the end page of this Appendix)</small>  <u>See Annex 35.</u></p>	<p><u>See Annex 35.</u></p>
<p><b>6. Office/Workshop Facilities</b>  Local office and a local holding nursery in <u>Hong Kong</u> of not less than 7,500m<sup>2</sup> required.</p>	<p>Local office and a local holding nursery in <u>Hong Kong</u> of not less than 7,500m<sup>2</sup> required.</p>
<p><b>7. Training Facilities</b>  Have training scheme to internal staff to improve <u>arboricultural, horticultural and workplace health and safety practice.</u></p>	<p>Have training scheme to internal staff to improve <u>arboricultural, horticultural and workplace health and safety practice.</u></p>
<p><b>8. Others</b>  <u>Special arboricultural skills such as maintenance, protection and transplanting of mature trees, and other horticultural skills such as laying and maintenance of turfs for sports ground.</u></p>	<p><u>Special arboricultural skills such as maintenance, protection and transplanting of mature trees, and other horticultural skills such as laying and maintenance of turfs for sports ground.</u></p>

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Group I	Group II
<p align="center"><b>B. Confirmation</b></p> <p><u>Completed satisfactorily at least two Government Group I contracts/ 1<sup>st</sup> tier Government subcontracts of total value of the General Landscape Works exceeding \$2M within the past 5 years, including one Government contract / 1<sup>st</sup> tier Government subcontract of value of landscape softworks exceeding \$0.5M. Job experience in all three types of the General Landscape Works within the past five years.</u></p>	<p align="center"><b>B. Confirmation</b></p> <p><u>Completed satisfactorily at least two Government Group II contracts/ 1<sup>st</sup> tier Government subcontracts of individual value of the General Landscape Works exceeding \$2M within the past 5 years, including one Government contract / 1<sup>st</sup> tier Government subcontract of value of landscape softworks. Job experience in all three types of the General Landscape Works within the past five years.</u></p>
<p align="center"><b>C. Direct Entry</b></p> <p><u>Not Applicable</u></p>	<p align="center"><b>C. Direct Entry</b></p> <p><u>Not Applicable</u></p>
	<p align="center"><b>D. Entry by Promotion</b></p> <p>Same as that required for "Entry on Probation".</p>

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Managing Department : Architectural Services Department

<b>Works Category</b> :	<u>Landscaping</u>	<b>Specialist Contractor</b>
<b>Class II</b> :	<u>Hydroseeding</u>	
<b>Group I</b> :	Contracts/Subcontracts up to HK\$2.3M	
<b>Group II</b> :	Contracts/Subcontracts of unlimited value	
<b>Brief Scope of Category/Class :</b>		
Hydroseeding is the application by high-pressure spraying of specified mixture of grass seeds, fertilizer, mulch and other additives in aqueous solution, including the supply of all materials and equipment necessary for the application and subsequent establishment of grass cover by the method described.		
<b>Definition of Probationary Status<sup>#</sup></b>		
Probation to Group I :	<u>Eligible for the award of one contract at any one time of value up to \$2.3 million</u>	
Probation to Group II :	<u>Eligible for the award of any number of Group I contracts, plus one contract of value exceeding \$2.3 million</u>	

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<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

Group I	Group II
A. Entry On Probation	A. Entry On Probation
<b>1. Job Experience</b> Completed at least three relevant contracts/subcontracts of total value exceeding \$4M within the past 5 years.	Completed at least three relevant government contracts/subcontracts of total value exceeding \$6M within the past 5 years.
<b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b> <u>Not Applicable</u>	<u>Not Applicable</u>
<b>3. Top Management</b> <small>*(See Remarks on the end page of this Appendix)</small> <u>Not Applicable</u>	<u>Not Applicable</u>
<b>4. Technical Staff</b> Min. 1 No. trained operator with 3 years relevant HK working experience.	Min. 2 Nos. trained operator with 3 years relevant HK working experience.
<b>5. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small> All necessary equipment to carry out the required work.	All necessary equipment to carry out the required work.
<b>6. Office/Workshop Facilities</b> Local office in Hong Kong is required.	Local office in Hong Kong is required.
<b>7. Training Facilities</b> Have training scheme to internal staff to improve hydroseeding and safety practice.	Have training scheme to internal staff to improve hydroseeding and safety practice.
<b>8. Others</b> Financial resources	Financial resources

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Group I	Group II
<b>B. Confirmation</b>	<b>B. Confirmation</b>
Completed satisfactorily at least two government Group I contracts/subcontracts within the past 5 years, of total value exceeding \$2M.	Completed satisfactorily at least two government Group II contracts/subcontracts within the past 5 years, of individual value exceeding \$2M.
<b>C. Direct Entry</b>	<b>C. Direct Entry</b>
<u>Not Applicable</u>	<u>Not Applicable</u>
	<b>D. Entry by Promotion</b>
	Same as that required for "Entry on Probation"

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Managing Department : Civil Engineering and Development Department

Works Category :  Landslip Preventive/Remedial Works to Slopes/Retaining Walls  Specialist Contractor

**Brief Scope of Category :**

The scope of work in this category covers landslip preventive works, remedial works or formation works of slopes and/or retaining walls in areas immediately behind occupied structures, adjacent to railway lines or major trunk roads

**Definition of Probationary Status<sup>#</sup>:**

Contractors included in the Specialist List for “Landslip Preventive/Remedial works to Slopes/Retaining Walls (LPM)” but have not yet achieved confirmation status. A probationary contractor may take on not more than 2 government contracts tendered under the LPM category with total outstanding value of works of not greater than \$114M.

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry On Probation	B. Confirmation
<p><b>1. Job Experience</b> See paras.2.2, 2.3 and 2.4 of <b>Annex 18</b></p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b> Contractors who wish to apply for inclusion should have obtained:</p> <p>i) The relevant Quality Management System Certification or if they do not have suitable works contracts in hand for certification auditing, a confirmation from a certification body accredited by the HKAS to issue the Certification or considered to be equivalent by the Environment, Transport and Works Bureau that a full review of the Quality Manual of their Hong Kong office has been carried out in Hong Kong by the certification body and such Quality Manual has been confirmed by the certification body as being in conformity with the requirements of the relevant standard.</p> <p>ii) Registration on the Buildings Department's list of Registered Specialist Contractor for Site Formation Works.</p>	<p>Satisfactorily completed, as main contractor, at least one Government Landslip Preventive Measures contract containing multiple sites and of value not less than \$40M and subject to a minimum probationary period of 24 months</p> <p>i) Maintain the relevant Quality Management System Certification. ii) Maintain the Registration on the buildings Department's list of Registered Specialist Contractor for Site Formation Works.</p>
<p><b>3. Top Management</b> <small>*(See Remarks on the end page of this Appendix)</small> See para. 2.5.1 of <b>Annex 18</b></p>	Employ/retain appropriate management staff
<p><b>4. Professional Staff</b> See para. 2.5.3 of <b>Annex 18</b></p>	Employ/retain appropriate professional staff
<p><b>5. Technical Staff</b> See para. 2.3.3 of <b>Annex 18</b></p>	Employ/retain appropriate technical staff
<p><b>6. Safety Staff</b> See para. 2.5.4 of <b>Annex 18</b></p>	Employ/retain appropriate safety staff
<p><b>7. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small> See para. 2.6 of <b>Annex 18</b></p>	Possess appropriate plant and equipment
<p><b>8. Office/Workshop Facilities</b> All applicants must possess or set up in Hong Kong a place of business.</p>	<u>Not Applicable</u>

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9. Training Facilities

Not Applicable

Not Applicable

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10. Others

(i) Performance on Government contracts under the R&D and SF categories and in landslip preventive works in the past 3 years – see para. 2.2, 2.3 and 2.4 of **Annex 18**

In all other ways being considered suitable for confirmation

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**Managing Department:** Architectural Services Department

**Works Category:** Lift, Escalator and Passenger Conveyor Installation Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of passenger lifts, bed/ passenger lifts, service lifts, goods lifts, escalators and passenger conveyor installations, lifting platform for barrier free access, and associated motor power drives, motor control centres, central and remote control systems, CCTV inside lifts, etc.

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable.	Not Applicable.	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory submissions to EMSD and Buildings Authority shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$1M; and</li> <li>(b) The contract shall cover major scope of works as described in the “Brief Scope of Category”; and</li> <li>(c) The contract shall be of a completely new building construction project or a whole building refurbishment project.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</li> <li>(d) The aforementioned main contractor shall not be the lift, escalator and passenger conveyor installation contractor for the project work; and</li> <li>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor’s authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</li> </ul>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>(f) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be</p> <ul style="list-style-type: none"> <li>◇ a Registered Lift and/or Escalator Contractor registered under Lifts &amp; Escalators (Safety) Ordinance, Cap. 327; and</li> <li>◇ a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and</li> </ul> <p>have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><u>Quality Management System Certification</u></p> <p>Quality Management System certificates issued under the rules of the Hong Kong Certification Body Accreditation Scheme (HKCAS) operated by the Hong Kong Accreditation Service (HKAS); i.e. bearing the HKCAS Accreditation Mark, and Quality Management System certificates bearing the accreditation mark of other accreditation bodies which are considered as having an equivalent standard by the Environment, Transport and Works Bureau.</p> <p>The scope of certification shall be relevant to the contractor list being applied for, e.g. "Supply, installation and maintenance of lift and escalator installation".</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry												
		<p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Registered Lift Engineer (RLE)</u> At least 2 nos. registered under Lifts and Escalators (Safety) Ordinance, Cap. 327</p> <p><u>Registered Escalator Engineer (REE)</u> At least 2 nos. registered under Lifts and Escalators (Safety) Ordinance, Cap. 327 The RLE and REE can be the same person</p> <p><u>Technical Support Staff</u> Employ adequate nos. of site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Site supervisor</td> <td>4 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades Lift Electrician/Mechanic</p> <table border="0"> <tr> <td>Minimum score required</td> <td>100 marks</td> </tr> <tr> <td>Qualified Lift Electrician/Mechanic</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Lift Electrician/Mechanic</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Lift Electrician/Mechanic</td> <td>8 marks</td> </tr> </table> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>✧ Registered Lift and/or Escalator Engineer (RLEE) registered under Lifts &amp; Escalators (Safety) Ordinance, Cap. 327 – 2 nos. (minimum)</li> <li>✧ Competent Lift/Escalator Worker (CLEW) registered under Lifts and Escalators (Safety)</li> </ul>	Site supervisor	4 nos.	Draftsman	1 no.	Minimum score required	100 marks	Qualified Lift Electrician/Mechanic	20 marks	Intermediate Lift Electrician/Mechanic	15 marks	Ordinary Lift Electrician/Mechanic	8 marks
Site supervisor	4 nos.													
Draftsman	1 no.													
Minimum score required	100 marks													
Qualified Lift Electrician/Mechanic	20 marks													
Intermediate Lift Electrician/Mechanic	15 marks													
Ordinary Lift Electrician/Mechanic	8 marks													

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>Ordinance, Cap. 327 – 10 nos. (minimum)            ✧ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade B2 – 1 no. (minimum)</p> <p>The RLEE, CLEW and REW can be the Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal.            Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 19</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 100 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced</p> <p><u>Depot</u>            At least two, preferably more and distributed over Hong Kong SAR.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u>            Be an authorized agent/distributor in HKSAR for the lifts, escalators, and passenger conveyors. Documentary evidence such as authorized agency/distributorship agreements shall be available for checking.</p> <p><u>Type test certificates for escalators</u>            Required for steps, pallets, belts and handrails</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>(handrail breaking strength).</p> <p><u>Type test certificates for lifts</u>            Required for landing door locking devices, landing doors, overspeed governors, safety gears, energy dissipation and/or energy accumulation type buffers with/without buffered return movement, ascending car overspeed protection means, rupture valve/one way restrictor, and safety circuits containing electronic components.</p> <p><u>Permit to use and operate a new lift or escalator</u>            At least two installations for each model issued by Electrical &amp; Mechanical Services Department. Applicant to submit a list of the models for use in Government projects. <b>Only those models submitted and approved can be used in Government projects. New models to be offered after admission must be submitted for assessment and prior approval must be obtained before new models can be offered for use in Government projects.</b></p> <p><u>Harmonic distortion</u>            Comply with relevant standards; details of harmonic current distortion for each model to be submitted.</p> <p><u>Support from Manufacturer</u>            Sound technical support required, including provision of spare parts, training (record to be submitted), etc.</p> <p><u>Maintenance facilities</u>            24-hour emergency service for fault attendance must be available. The 24-hour emergency service for fault attendance shall be effective, e.g. the fault call can be acknowledged immediately and maintenance personnel can arrive at the fault location within 1 hour for normal call (e.g. no trapping of passenger) and 30 minutes for urgent call (e.g. trapping of passenger). Applicant to provide evidence that such maintenance facilities are established in strategic locations in Hong Kong SAR with suitable communication network to meet the</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		above requirements.

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Managing Department: Architectural Services Department

Works Category: Liquefied Petroleum Gas Installation Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of fixed and piped liquefied petroleum gas (LPG) installations including bulk LPG storage vessels, LPG cylinders, vaporizers, piping and fittings, valves and accessories, LPG appliances, etc.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

<sup>@</sup>Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

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<sup>@</sup> Not applicable for new application for admission. (Only applicable for existing probationary contractor)

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<sup>#</sup> See Remarks (1) on the end page of this Appendix

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable	<p><b>The following shall only be applicable to existing probationary contractor:</b></p> <ol style="list-style-type: none"> <li>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</li> <li>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(3) All statutory submissions to Gas Authority shall be issued under the name of the applicant; and</li> <li>(4) The scope of work for this contract must fulfill all the following requirements:               <ol style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.25M; and</li> <li>(b) The contract shall cover a complete liquefied petroleum gas installation at least with cylinders supply; and</li> <li>(c) The contract shall be for new building project or new liquefied petroleum gas installation in an existing building. Partial renovation or fitting-out works for an existing installation are not acceptable; and</li> <li>(d) If the contract is a term contract, all of the above requirements 4 (a) and 4 (c) shall be fulfilled in one works order.</li> </ol> </li> <li>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:               <ol style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full</li> </ol> </li> </ol>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <ol style="list-style-type: none"> <li>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</li> <li>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</li> <li>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</li> </ol> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <ol style="list-style-type: none"> <li>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</li> <li>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</li> <li>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(7) All statutory submissions to Gas Authority shall be issued under the name of the applicant; and</li> <li>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</li> </ol>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
	<p>scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the liquefied petroleum gas installation contractor for the project work.</p>	<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$0.5M; and</li> <li>(b) The contract shall cover a complete liquefied petroleum gas installation at least with cylinders supply; and</li> <li>(c) The contract shall be for new building project or new liquefied petroleum gas installation in an existing building. Partial renovation or fitting-out works for an existing installation are not acceptable.</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the liquefied petroleum gas installation contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from</li> </ul>

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A. Entry on Probation	B. Confirmation	C. Direct Entry						
		<p>them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u> The applicant shall be a Registered Gas Contractor registered under Gas Safety Ordinance, Cap. 51 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1294 1010 1783 1082"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <p>(A) BS Mechanic/Mechanical Fitter</p> <p>Minimum score required 20 marks</p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.
Technician	1 no.							
Site supervisor	1 no.							
Draftsman	1 no.							

A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>Qualified BS Mechanic/Mechanical Fitter 20 marks</p> <p>Intermediate BS Mechanic/Mechanical Fitter 15 marks</p> <p>Ordinary BS Mechanic/Mechanical Fitter 8 marks</p> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:</p> <p>✧ Registered Gas Installer (RGI) registered under Gas Safety Ordinance, Cap. 51 – 2 nos. (minimum) (These RGIs shall hold licences covering gas installation work Class 1 to 7 collectively) The RGI can be the Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <sup>**</sup>(See Remarks on the end page of this Appendix)</p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 20</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 10 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>

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Managing Department: Architectural Services Department

Works Category: Low Voltage Cubicle Switchboard Installation Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of low voltage cubicle switchboard comprising main incoming switchgear, busbars and droppers/risers, outgoing switchgears, instruments and protection devices, etc. all in a type tested assembly.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

<sup>@</sup>Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

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<sup>@</sup> Not applicable for new application for admission. (Only applicable for existing probationary contractor)

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<sup>#</sup> See Remarks (1) on the end page of this Appendix

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable	<p><b>The following shall only be applicable to existing probationary contractor:</b></p> <ol style="list-style-type: none"> <li>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</li> <li>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(3) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</li> <li>(4) The scope of work for this contract must fulfill all the following requirements:               <ol style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.5M; and</li> <li>(b) The rating of the main incoming switchgear is not less than 2500A or with power rating not less than 1500kVA; and</li> <li>(c) The contract shall cover major scope of works as described in the “Brief Scope of Category”; and</li> <li>(d) If the contract is a term contract, all of the above requirements 4 (a) and 4 (c) shall be fulfilled in one works order.</li> </ol> </li> <li>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:               <ol style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely</li> </ol> </li> </ol>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <ol style="list-style-type: none"> <li>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</li> <li>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</li> <li>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</li> </ol> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <ol style="list-style-type: none"> <li>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</li> <li>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</li> <li>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</li> <li>(7) All statutory forms such as the Work Completion Certificate (i.e. Form WR1) shall be issued under the name of the applicant; and</li> <li>(8) The applicant shall be able to arrange joint site inspections for the government’s examination of the quality and workmanship of the submitted job reference within normal office hours; and</li> </ol>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
	<p>and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the low voltage cubicle switchboard installation contractor for the project work.</p>	<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$1M; and</li> <li>(b) The rating of the main incoming switchgear is not less than 2500A or with power rating not less than 1500kVA; and</li> <li>(c) The contract shall cover major scope of works as described in the "Brief Scope of Category".</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the low voltage cubicle switchboard installation contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</li> </ul>

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A. Entry on Probation	B. Confirmation	C. Direct Entry														
		<p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1294 962 1780 1034"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of Electrician/Mechanical Fitter</p> <table data-bbox="1294 1153 1818 1249"> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Electrician/Mechanical Fitter</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Electrician/Mechanical Fitter</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Electrician/Mechanical Fitter</td> <td>8 marks</td> </tr> </table>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	40 marks	Qualified Electrician/Mechanical Fitter	20 marks	Intermediate Electrician/Mechanical Fitter	15 marks	Ordinary Electrician/Mechanical Fitter	8 marks
Technician	1 no.															
Site supervisor	1 no.															
Draftsman	1 no.															
Minimum score required	40 marks															
Qualified Electrician/Mechanical Fitter	20 marks															
Intermediate Electrician/Mechanical Fitter	15 marks															
Ordinary Electrician/Mechanical Fitter	8 marks															



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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade C2 – 1 no. (minimum)</li> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade B2 – 2 nos. (minimum)</li> </ul> <p>The REW can be the Technical Support Staff or Craftsman</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 21</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/ storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 180 m<sup>2</sup>. Documentary evidence (e.g. purchase/ lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Design</u> IEC 60439 Applicant to prove that switchboard is designed to the relevant IEC or equivalent standard; A motor control centre alone shall not be acceptable.</p> <p><u>Type test certificates for switchboard as required by</u></p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p><u>IEC 60439-1</u></p> <ul style="list-style-type: none"> <li>• temperature-rise limit test</li> <li>• dielectric properties test</li> <li>• short-circuit withstand strength test</li> <li>• effectiveness of protective circuit test</li> <li>• clearances &amp; creepage distance test</li> <li>• mechanical operation test</li> <li>• degree of protection test</li> </ul> <p>Tests shall be on a <b>whole switchboard</b> and <b>NOT</b> simply on the busbar system; and the above type tests shall be certified by an internationally recognized testing organization, e.g. ASTA.</p> <p><u>Air circuit breakers</u> Applicant to provide proof of compliance of relevant standards IEC 60947-2.</p> <p><u>Switchfuse/fuseswitch</u> Applicant to provide proof of compliance of relevant standards IEC 60947-3.</p> <p><u>H.R.C. fuses</u> Applicant to provide proof of compliance of relevant standards IEC 60269 or BS 88.</p> <p><u>Busbars</u> Applicant to provide proof of compliance of relevant standards BS 1433.</p> <p><u>Permit to use in Government projects</u> <b>Only those configurations with type tests certificates and materials with poof of compliance with the above standards can be offered for Government projects.</b></p> <p><u>Authorized Agency</u> Agreement between principals and applicant, including agreements proving applicant's rights to manufacture, etc. shall be provided.</p>

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Managing Department: Architectural Services Department

**Works Category:** Mechanical Handling and Lifting Installation **Specialist Contractor**

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of mechanical handling and lifting installation including crane, hoist, conveyor system, mechanical storage system, movable boarding facility etc.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(4) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.5M; and</p> <p>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</p> <p>(c) If the contract is a term contract, all of the above requirements 4 (a) and 4 (b) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>

A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds \$0.5M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the mechanical handling and lifting installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the</p>	<p>mechanical handling and lifting installation contractor for the project work.</p>	<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds \$1M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the mechanical handling and lifting installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the</p>

A. Entry on Probation	B. Confirmation	C. Direct Entry												
<p>concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical discipline) with adequate and relevant project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="107 1034 604 1104"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <p>(A) Mechanical Fitter</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.		<p>concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical discipline) with adequate and relevant project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1294 1034 1792 1104"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <p>(A) Mechanical Fitter</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.
Technician	2 nos.													
Site supervisor	2 nos.													
Draftsman	1 no.													
Technician	2 nos.													
Site supervisor	2 nos.													
Draftsman	1 no.													

A. Entry on Probation	B. Confirmation	C. Direct Entry
Minimum score required 20 marks Qualified Mechanical Fitter 20 marks Intermediate Mechanical Fitter 15 marks Ordinary Mechanical Fitter 8 marks		Minimum score required 20 marks Qualified Mechanical Fitter 20 marks Intermediate Mechanical Fitter 15 marks Ordinary Mechanical Fitter 8 marks
(B) Electrician Minimum score required 20 marks Qualified Electrician 20 marks Intermediate Electrician 15 marks Ordinary Electrician 8 marks		(B) Electrician Minimum score required 20 marks Qualified Electrician 20 marks Intermediate Electrician 15 marks Ordinary Electrician 8 marks
<u>Statutory Registration</u>  The applicant shall have staff meeting the following statutory registration requirements:  ✧ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A0 – 1 no. (minimum)  The REW can be the Qualified Engineer, Technical Support Staff or Craftsman.  <u>Qualified Welder</u>  Employ adequate nos. of Qualified Welder (QW)  QW 1 no.  The QW can be the Qualified Engineer, Technical Support Staff or Craftsman.		<u>Statutory Registration</u>  The applicant shall have staff meeting the following statutory registration requirements:  ✧ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A0 – 1 no. (minimum)  The REW can be the Qualified Engineer, Technical Support Staff or Craftsman.  <u>Qualified Welder</u>  Employ adequate nos. of Qualified Welder (QW)  QW 1 no.  The QW can be the Qualified Engineer, Technical Support Staff or Craftsman.
<b>4. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small>  Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 22</b> for list of typical equipment/tools and testing instruments		<b>4. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small>  Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 22</b> for list of typical equipment/tools and testing instruments

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 40 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>		<p>required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 40 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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**Managing Department:** Architectural Services Department

<b>Works Category:</b>	<u>Mechanical Plant and Equipment Installation</u>	<b>Specialist Contractor</b>
<b>Group I:</b>	Contracts/Subcontracts up to HK\$1.1M	
<b>Group II:</b>	Contracts/Subcontracts of unlimited value	
<b>Brief Scope of Category:</b>		
The scope of work in this category covers the general mechanical fabrication, supply, installation and maintenance of mechanical plants and equipment. Typical installations include laundry equipment, waste disposal equipment, vehicle examination facility, garage equipment, bulk fuel storage and dispensing system, pumping system etc.		
<b>Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)</b>		
<sup>@</sup> Probation to Group I	: Eligible for the award of a maximum of two Group I contracts/subcontracts	
Probation to Group II	: Eligible for the award of any number of Group I contracts/subcontracts; and a maximum of two Group II contracts/subcontracts exceeding \$1 million provided that the total value of Group II works does not exceed \$3.4 million	

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<sup>@</sup> Not applicable for new application for admission. (Only applicable for existing Group I probationary contractor)

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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Group I A. Entry on Probation	Group II A. Entry on Probation
Not Applicable	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds 180% of Group I tender limit; and</p> <p>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category".</p> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the</p>

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Group I	Group II
	<p>following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the mechanical plant and equipment installation contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</li> </ul> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contactor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical or Building Services) with adequate and relevant professional and project management experience.</p>

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Group I	Group II																								
	<p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td style="text-align: right;">2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td style="text-align: right;">4 nos.</td> </tr> <tr> <td>Draftsman</td> <td style="text-align: right;">2 nos.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p> <p>(A) Electrician</p> <table border="0"> <tr> <td>Minimum score required</td> <td style="text-align: right;">40 marks</td> </tr> <tr> <td>Qualified Electrician</td> <td style="text-align: right;">20 marks</td> </tr> <tr> <td>Intermediate Electrician</td> <td style="text-align: right;">15 marks</td> </tr> <tr> <td>Ordinary Electrician</td> <td style="text-align: right;">8 marks</td> </tr> </table> <p>(B) Mechanical Fitter</p> <table border="0"> <tr> <td>Minimum score required</td> <td style="text-align: right;">40 marks</td> </tr> <tr> <td>Qualified Mechanical Fitter</td> <td style="text-align: right;">20 marks</td> </tr> <tr> <td>Intermediate Mechanical Fitter</td> <td style="text-align: right;">15 marks</td> </tr> <tr> <td>Ordinary Mechanical Fitter</td> <td style="text-align: right;">8 marks</td> </tr> </table> <p><u>Statutory Registration/Qualified Welder</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</li> </ul> <p>The REW can be the Qualified Engineer, Technical Support Staff or the Craftsman.</p> <p><u>Qualified Welder</u></p> <p>Employ adequate nos. of Qualified Welder (QW)</p> <table border="0"> <tr> <td>QW</td> <td style="text-align: right;">1 no.</td> </tr> </table> <p>The QW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p>	Technician	2 nos.	Site supervisor	4 nos.	Draftsman	2 nos.	Minimum score required	40 marks	Qualified Electrician	20 marks	Intermediate Electrician	15 marks	Ordinary Electrician	8 marks	Minimum score required	40 marks	Qualified Mechanical Fitter	20 marks	Intermediate Mechanical Fitter	15 marks	Ordinary Mechanical Fitter	8 marks	QW	1 no.
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Ordinary Mechanical Fitter	8 marks																								
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Group I	Group II
	<p><b>4. Plant and Equipment</b> <small>*(See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities; minimum 2 nos. CAD terminals. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to <a href="#">Annex 23</a> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 80 m<sup>2</sup> and the minimum workshop + storage area shall be 70 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreement shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>
<b>B. Confirmation</b>	<b>B. Confirmation</b>
<p><b>The following shall only be applicable to existing probationary contractor:</b></p> <p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(4) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds 50 % of Group I tender limit; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(4) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds Group I tender limit; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”; and</p>

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Group I	Group II
<p>Category”; and</p> <p>(c) If the contract is a term contract, all of the above requirements 4 (a) to 4 (b) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the mechanical plant and equipment installation contractor for the project work.</p>	<p>(c) If the contract is a term contract, all of the above requirements 4 (a) to 4 (b) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the mechanical plant and equipment installation contractor for the project work.</p>
C. Direct Entry	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and</p>	<p>Not Applicable</p>

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Group I	Group II
<p>the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government’s examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds 50% Group I tender limit; and</li> <li>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”; and</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the manufacture plant and equipment installation contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</li> </ul>	

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Group I	Group II																										
<p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman with adequate relevant experience in the following trades</p> <table border="0"> <tr> <td colspan="2">(A) Electrician</td> </tr> <tr> <td>Minimum score required</td> <td>20 marks</td> </tr> <tr> <td>Qualified Electrician</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Electrician</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Electrician</td> <td>8 marks</td> </tr> <tr> <td colspan="2">(B) Mechanical Fitter</td> </tr> <tr> <td>Minimum score required</td> <td>20 marks</td> </tr> <tr> <td>Qualified Mechanical Fitter</td> <td>20 marks</td> </tr> <tr> <td>Intermediate Mechanical Fitter</td> <td>15 marks</td> </tr> <tr> <td>Ordinary Mechanical Fitter</td> <td>8 marks</td> </tr> </table> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</p> <p>The REW can be the Technical Support Staff or Craftsman.</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.	(A) Electrician		Minimum score required	20 marks	Qualified Electrician	20 marks	Intermediate Electrician	15 marks	Ordinary Electrician	8 marks	(B) Mechanical Fitter		Minimum score required	20 marks	Qualified Mechanical Fitter	20 marks	Intermediate Mechanical Fitter	15 marks	Ordinary Mechanical Fitter	8 marks	
Technician	2 nos.																										
Site supervisor	2 nos.																										
Draftsman	1 no.																										
(A) Electrician																											
Minimum score required	20 marks																										
Qualified Electrician	20 marks																										
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(B) Mechanical Fitter																											
Minimum score required	20 marks																										
Qualified Mechanical Fitter	20 marks																										
Intermediate Mechanical Fitter	15 marks																										
Ordinary Mechanical Fitter	8 marks																										



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Group I	Group II
<p><b>4. Plant and Equipment</b> <small>(See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities, minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates where applicable for testing instruments shall be available. Refer to <b>Annex 23</b> for list of typical equipment /tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 40 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreement shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>	

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Managing Department: Architectural Services Department

Works Category: Motor Vehicle Body-building and Painting Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers design and building of general purpose/specialist vehicle body, supply and installation of specialist equipment on vehicle, minor or major vehicle modification, etc. and all vehicle related vehicle modification work.

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable.	Not Applicable.	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category on motor vehicle fleet, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) The contract shall cover the major scope of works as described in the "Brief Scope of</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</li> <li>(d) The aforementioned main contractor shall not be the motor vehicle body-building and painting contractor for the project work; and</li> <li>(e) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor’s authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(f) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</li> </ul> <p><b>2. Technical Staff (See Annex 1 for definition of Staff</b></p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry																														
		<p><b>Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr><td>Technician</td><td>1 no.</td></tr> <tr><td>Site supervisor</td><td>1 no.</td></tr> <tr><td>Draftsman</td><td>1 no.</td></tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of Craftsman in the following trades</p> <p>(A) Body Repairer/Builder</p> <table border="0"> <tr><td>Minimum score required</td><td>30 marks</td></tr> <tr><td>Qualified Body Repairer/Builder</td><td>20 marks</td></tr> <tr><td>Ordinary Body Repairer/Builder</td><td>10 marks</td></tr> </table> <p>(B) Vehicle Mechanic</p> <table border="0"> <tr><td>Minimum score required</td><td>20 marks</td></tr> <tr><td>Qualified Vehicle Mechanic</td><td>20 marks</td></tr> <tr><td>Ordinary Vehicle Mechanic</td><td>10 marks</td></tr> </table> <p>(C) Vehicle Electrician</p> <table border="0"> <tr><td>Minimum score required</td><td>20 marks</td></tr> <tr><td>Qualified Vehicle Electrician</td><td>20 marks</td></tr> <tr><td>Ordinary Vehicle Electrician</td><td>10 marks</td></tr> </table> <p>(D) Vehicle Painter</p> <table border="0"> <tr><td>Minimum score required</td><td>20 marks</td></tr> <tr><td>Qualified Vehicle Painter</td><td>20 marks</td></tr> <tr><td>Ordinary Vehicle Painter</td><td>10 marks</td></tr> </table> <p>The craftsman can be the Technical Support Staff.</p> <p><b>3. Plant and Equipment</b> <small>***(See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting facilities and minimum 1 computer, preferably with CAD.</p> <p>Adequate nos. of equipment, tools and testing</p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	30 marks	Qualified Body Repairer/Builder	20 marks	Ordinary Body Repairer/Builder	10 marks	Minimum score required	20 marks	Qualified Vehicle Mechanic	20 marks	Ordinary Vehicle Mechanic	10 marks	Minimum score required	20 marks	Qualified Vehicle Electrician	20 marks	Ordinary Vehicle Electrician	10 marks	Minimum score required	20 marks	Qualified Vehicle Painter	20 marks	Ordinary Vehicle Painter	10 marks
Technician	1 no.																															
Site supervisor	1 no.																															
Draftsman	1 no.																															
Minimum score required	30 marks																															
Qualified Body Repairer/Builder	20 marks																															
Ordinary Body Repairer/Builder	10 marks																															
Minimum score required	20 marks																															
Qualified Vehicle Mechanic	20 marks																															
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Minimum score required	20 marks																															
Qualified Vehicle Electrician	20 marks																															
Ordinary Vehicle Electrician	10 marks																															
Minimum score required	20 marks																															
Qualified Vehicle Painter	20 marks																															
Ordinary Vehicle Painter	10 marks																															

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>instruments for carrying out installation, testing/ commissioning and maintenance services. Refer to <a href="#">Annex 24</a> for list of typical equipment / tools required.</p> <p><b>4. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 10 m<sup>2</sup>, and the minimum workshop + storage area shall be 110 m<sup>2</sup> (minimum 50 m<sup>2</sup> of covered space). Documentary evidence (e.g. purchase/ lease agreement) to prove right of use shall be produced.</p> <p><b>5. Others</b></p> <p><u>Authorized Agency</u>            Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p>

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Managing Department: Architectural Services Department

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Works Category: Plumbing Installation Specialist ContractorGroup I: Contracts/Subcontracts up to HK\$2.3 millionGroup II: Contracts/Subcontracts of unlimited valueBrief Scope of Category:

The scope of work in this category covers the construction, repair and maintenance of plumbing installations. Typical installations include fresh and flush water pumps and pipework installations (including connection to sanitary fixtures and associated taps and water heaters installed by others); water supply for fire service installation including up-feed pipework and connection to the roof/transfer tank; cold and hot water supply systems; rain water recycling system; water supply for feeding/make-up to air-conditioning installation, fountain installation and swimming pool installation; and water supply for irrigation system.

Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)Probation to Group I : Not applicableProbation to Group II : Eligible for the award of any number of Group I contracts/subcontracts; and a maximum of two Group II contracts/subcontracts provided that the total value of Group II works does not exceed \$8.2 million

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<sup>#</sup> See Remarks (1) on the end page of this Appendix.

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<p style="text-align: center;"><u>Group I</u> <u>A. Entry on Probation</u></p>	<p style="text-align: center;"><u>Group II</u> <u>A. Entry on Probation</u></p>
<p><u>Not Applicable</u></p>	<p><u>1. Job Experience</u></p> <p><u>General</u></p> <ol style="list-style-type: none"> <li>(1) <u>The applicant shall have adequate experience in the type and size of work of the category, as stipulated under "Job Reference for Inspection" below, with satisfactory quality of work compatible with Government standard on and in relation to plumbing installations; and</u></li> <li>(2) <u>The applicant shall have adequate experience in contract management of work of the category, as stipulated under "Job Reference for Inspection" below, including solely and fully responsible for carrying out contract management and coordination with building contractor and other building services / electrical and mechanical contractors; and</u></li> <li>(3) <u>For job experience outside the HKSAR, evidences must also be produced to the satisfaction of the Secretary for Development; otherwise, it will not be considered as a valid job reference.</u></li> </ol> <p><u>Job Reference for Inspection (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</u></p> <ol style="list-style-type: none"> <li>(4) <u>The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</u></li> <li>(5) <u>At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</u></li> <li>(6) <u>These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</u></li> <li>(7) <u>All statutory forms such as Form WR1(A) "Electricity Ordinance (Cap. 406) Electricity (Wiring) Regulations Work Completion Certificate", Form WWO 46 "Waterworks Ordinance (Cap. 102) Notification/Application for Constructing, Installing, Altering or Removing an Inside Service or Fire Service", etc. shall be issued under the name of the applicant and/or the Registered Electrical Worker (REW)/ Licensed Plumber (LP) engaged by the applicant as applicable; and</u></li> <li>(8) <u>The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</u></li> </ol>

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<u>Group I</u>	<u>Group II</u>
	<p>(9) <u>The scope of work for each of these 2 contracts must fulfill all of the following requirements:</u></p> <p>(a) <u>Contract value of the work related to the category under application for inclusion exceeds 180% of Group I tender limit; and</u></p> <p>(b) <u>The contract shall cover major scope of works as described in the “Brief Scope of Category”; and</u></p> <p>(c) <u>The contract shall be of a completely new building construction project or a whole building refurbishment project.</u></p> <p>(10) <u>Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</u></p> <p>(a) <u>The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</u></p> <p>(b) <u>The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</u></p> <p>(c) <u>The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</u></p> <p>(d) <u>The aforementioned main contractor shall not be the plumbing installation contractor for the project work; and</u></p> <p>(e) <u>The applicant must present documentary evidence to prove that the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor’s authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</u></p> <p>(f) <u>Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</u></p>

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<u>Group I</u>	<u>Group II</u>						
	<p><b><u>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</u></b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff” below.</p> <p><u>Quality Management System Certification</u></p> <p>Quality Management System certificates issued under the rules of the Hong Kong Certification Body Accreditation Scheme (HKCAS) operated by the Hong Kong Accreditation Service (HKAS); i.e. bearing the HKCAS Accreditation Mark, or Quality Management System certificates bearing the accreditation mark of other accreditation bodies which are considered as having an equivalent standard by the Development Bureau.</p> <p>The scope of certification shall be relevant to the “Brief Scope of the Category” being applied for, e.g. “supply, installation, repair and maintenance of plumbing work”.</p> <p>If the scope of certification does not include “maintenance”, the relevant quality management manual shall have relevant sections for maintenance work that shall include not only post contract service but also service for separate maintenance contract.</p> <p><b><u>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</u></b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. Qualified Engineer (Mechanical, Building Services or Electrical discipline) with adequate and relevant professional and project management experience.</p> <p><u>Technical Support Staff</u></p> <p><u>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</u></p> <table border="0"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>4 nos.</td> </tr> <tr> <td>Draftsman</td> <td>2 nos.</td> </tr> </table>	Technician	2 nos.	Site supervisor	4 nos.	Draftsman	2 nos.
Technician	2 nos.						
Site supervisor	4 nos.						
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<u>Group I</u>	<u>Group II</u>																
	<p><u>Craftsman</u></p> <p><u>Employ adequate nos. of craftsman to meet the minimum scores of both (A) and (B) below in the following trades</u></p> <p><u>(A) Licensed Plumber/ BS Mechanic</u></p> <table border="1"> <tr><td><u>Minimum score required</u></td><td><u>40 marks</u></td></tr> <tr><td><u>Qualified Plumber/BS Mechanic</u></td><td><u>1 no. for 20 marks</u></td></tr> <tr><td><u>Intermediate Plumber/BS Mechanic</u></td><td><u>1 no. for 15 marks</u></td></tr> <tr><td><u>Ordinary Plumber/BS Mechanic</u></td><td><u>1 no. for 8 marks</u></td></tr> </table> <p><u>(B) Electrician</u></p> <table border="1"> <tr><td><u>Minimum score required</u></td><td><u>40 marks</u></td></tr> <tr><td><u>Qualified Electrician</u></td><td><u>1 no. for 20 marks</u></td></tr> <tr><td><u>Intermediate Electrician</u></td><td><u>1 no. for 15 marks</u></td></tr> <tr><td><u>Ordinary Electrician</u></td><td><u>1 no. for 8 marks</u></td></tr> </table> <p><u>Statutory Registration</u></p> <p><u>The applicant shall have staff meeting the following statutory registration requirements:</u></p> <ul style="list-style-type: none"> <li><u>◇ Licensed Plumber, Grade I, registered under Waterworks Ordinance, Cap. 102. – 1 no. (minimum)</u></li> <li><u>◇ REW registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</u></li> </ul> <p><u>The LP and REW can be the Qualified Engineer, Technical Support Staff or Craftsman.</u></p> <p><u>4. Plant and Equipment</u> <sup>** (See Remarks on the end page of this Appendix)</sup></p> <p><u>Adequate modern drafting and computing facilities; minimum 2 nos. CAD terminals. Adequate nos. of calibrated testing instruments and equipment / tools for carrying out installation, operation, maintenance and testing / commissioning services; valid calibration certificates where applicable for testing instruments shall be available. Refer to Annex 36 for a list of typical equipment / tools and testing instruments required.</u></p> <p><u>5. Office/Workshop Facilities</u></p> <p><u>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 80 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</u></p>	<u>Minimum score required</u>	<u>40 marks</u>	<u>Qualified Plumber/BS Mechanic</u>	<u>1 no. for 20 marks</u>	<u>Intermediate Plumber/BS Mechanic</u>	<u>1 no. for 15 marks</u>	<u>Ordinary Plumber/BS Mechanic</u>	<u>1 no. for 8 marks</u>	<u>Minimum score required</u>	<u>40 marks</u>	<u>Qualified Electrician</u>	<u>1 no. for 20 marks</u>	<u>Intermediate Electrician</u>	<u>1 no. for 15 marks</u>	<u>Ordinary Electrician</u>	<u>1 no. for 8 marks</u>
<u>Minimum score required</u>	<u>40 marks</u>																
<u>Qualified Plumber/BS Mechanic</u>	<u>1 no. for 20 marks</u>																
<u>Intermediate Plumber/BS Mechanic</u>	<u>1 no. for 15 marks</u>																
<u>Ordinary Plumber/BS Mechanic</u>	<u>1 no. for 8 marks</u>																
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<u>Intermediate Electrician</u>	<u>1 no. for 15 marks</u>																
<u>Ordinary Electrician</u>	<u>1 no. for 8 marks</u>																
<u>B. Confirmation</u>	<u>B. Confirmation</u>																

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<u>Group I</u>	<u>Group II</u>
<u>Not Applicable</u>	<p>(1) <u>The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</u></p> <p>(2) <u>This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</u></p> <p>(3) <u>All statutory forms such as Form WR1(A) "Electricity Ordinance (Cap. 406) Electricity (Wiring) Regulations Work Completion Certificate", Form WWO 46 "Waterworks Ordinance (Cap. 102) Notification/Application for Constructing, Installing, Altering or Removing an Inside Service or Fire Service" etc. shall be issued under the name of the applicant and/or the REW/LP engaged by the applicant as applicable; and</u></p> <p>(4) <u>The scope of work for this contract must fulfill all the following requirements:</u></p> <p>(a) <u>Contract value of the work related to the category under application for confirmation exceeds Group I tender limit; and</u></p> <p>(b) <u>The contract shall cover major scope of works as described in the "Brief Scope of Category"; and</u></p> <p>(c) <u>The contract shall be of a completely new building construction or a whole building refurbishment; and</u></p> <p>(d) <u>If the contract is a term contract, all of the above requirements 4(a) to 4(c) shall be fulfilled in one works order.</u></p> <p>(5) <u>Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to the above stated requirements:</u></p> <p>(a) <u>The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</u></p> <p>(b) <u>The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</u></p> <p>(c) <u>The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</u></p> <p>(d) <u>The aforementioned main contractor shall not be the plumbing installation contractor for the project work.</u></p>
<u>C. Direct Entry</u>	<u>C. Direct Entry</u>
<u>I. Job Experience</u>	<u>Not Applicable</u>

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<u>Group I</u>	<u>Group II</u>
<p><u>General</u></p> <p>(1) <u>The applicant shall have adequate experience in the type and size of work of the category, as stipulated under “Job Reference for Inspection” below, with satisfactory quality of work compatible with Government standard on and in relation to plumbing installations; and</u></p> <p>(2) <u>The applicant shall have adequate experience in contract management of work of the category, as stipulated under “Job Reference for Inspection” below, including solely and fully responsible for carrying out contract management and coordination with building contractor and other building services / electrical and mechanical contractors; and</u></p> <p>(3) <u>For job experience outside the HKSAR, evidences must also be produced to the satisfaction of the Secretary for Development; otherwise, it will not be considered as a valid job reference.</u></p> <p><u>Job Reference for Inspection (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</u></p> <p>(4) <u>The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</u></p> <p>(5) <u>At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</u></p> <p>(6) <u>These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</u></p> <p>(7) <u>All statutory forms such as Form WR1(A) “Electricity Ordinance (Cap. 406) Electricity (Wiring) Regulations Work Completion Certificate”, Form WWO 46 “Waterworks Ordinance (Cap. 102) Notification/Application for Constructing, Installing, Altering or Removing an Inside Service or Fire Service” etc. shall be issued under the name of the applicant and/or the Registered Electrical Worker (REW)/ Licensed Plumber (LP) engaged by the applicant as applicable; and</u></p> <p>(8) <u>The applicant shall be able to arrange joint site inspections for the government’s examination of the quality and workmanship of the submitted job reference within normal office hours; and</u></p> <p>(9) <u>The scope of work for each of these 2 contracts must fulfill all of the following requirements;</u></p>	

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<u>Group I</u>	<u>Group II</u>
<p>(a) <u>Contract value of the work related to the category under application for inclusion exceeds 50% Group I tender limit; and</u></p> <p>(b) <u>The contract shall cover major scope of works as described in the “Brief Scope of Category”; and</u></p> <p>(c) <u>The contract shall be of a completely new building construction project or a whole building refurbishment project.</u></p> <p>(10) <u>Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</u></p> <p>(a) <u>The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</u></p> <p>(b) <u>The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</u></p> <p>(c) <u>The subcontract shall be signed between the applicant and the main contractor which is the company awarded with the direct contract by the employer of the concerned project; and</u></p> <p>(d) <u>The aforementioned main contractor shall not be the plumbing installation contractor for the project work; and</u></p> <p>(e) <u>The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by the main contractor including a letter, which must be signed by the main contractor’s authorized signatory to confirm that the applicant has met the above requirements in the subcontract; and</u></p> <p>(f) <u>Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</u></p> <p><b><u>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</u></b></p> <p><u>Statutory Registration</u></p> <p><u>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406; and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical</u></p>	

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<u>Group I</u>	<u>Group II</u>																						
<p>Staff below.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience:</p> <table border="1"> <tr><td>Technician</td><td>2 nos.</td></tr> <tr><td>Site supervisor</td><td>2 nos.</td></tr> <tr><td>Draftsman</td><td>1 no.</td></tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman with adequate relevant experience to meet the minimum scores of both (A) and (B) below in the following trades:</p> <p>(A) <u>Licensed Plumber/ FS Mechanic</u></p> <table border="1"> <tr><td>Minimum score required</td><td>20 marks</td></tr> <tr><td>Qualified Plumber/BS Mechanic</td><td>1 no. for 20 marks</td></tr> <tr><td>Intermediate Plumber/BS Mechanic</td><td>1 no. for 15 marks</td></tr> <tr><td>Ordinary Plumber/BS Mechanic</td><td>1 no. for 8 marks</td></tr> </table> <p>(B) <u>Electrician</u></p> <table border="1"> <tr><td>Minimum score required</td><td>20 marks</td></tr> <tr><td>Qualified Electrician</td><td>1 no. for 20 marks</td></tr> <tr><td>Intermediate Electrician</td><td>1 no. for 15 marks</td></tr> <tr><td>Ordinary Electrician</td><td>1 no. for 8 marks</td></tr> </table> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ <u>Licensed Plumber, Grade I, registered under Waterworks Ordinance, Cap. 102. – 1 no. (minimum)</u></li> <li>◇ <u>REW registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</u></li> </ul> <p><u>The LP and REW can be the Qualified Engineer, Technical Support Staff or Craftsman.</u></p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.	Minimum score required	20 marks	Qualified Plumber/BS Mechanic	1 no. for 20 marks	Intermediate Plumber/BS Mechanic	1 no. for 15 marks	Ordinary Plumber/BS Mechanic	1 no. for 8 marks	Minimum score required	20 marks	Qualified Electrician	1 no. for 20 marks	Intermediate Electrician	1 no. for 15 marks	Ordinary Electrician	1 no. for 8 marks	
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Minimum score required	20 marks																						
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Ordinary Plumber/BS Mechanic	1 no. for 8 marks																						
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<u>Group I</u>	<u>Group II</u>
<p><b>4. Plant and Equipment</b> <small>(See Remarks on the end page of this Appendix)</small></p> <p><u>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment / tools for carrying out installation, operation, maintenance and testing / commissioning services; valid calibration certificates where applicable for testing instruments shall be available. Refer to Annex 36 for a list of typical equipment /tools and testing instruments required.</u></p> <p><b>5. Office/Workshop Facilities</b></p> <p><u>Local office/workshop in the Hong Kong Special Administrative Region (HKSAR) is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 15 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be provided.</u></p>	

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Managing Department : Highways Department

Works Category : Prestressed Concrete Works for Highway Structures  
Class I : Supply and Installation of Prestressing Systems

Supplier / Specialist Contractor

**Brief Scope of Category/Class :**

The scope of work in this category and class covers the supply and installation of prestressing systems for prestressed concrete works for highway structures. The applicant will be included in this category and class for the supply and installation of a particular prestressing system proposed in the application. The prestressing system must be a proprietary product.

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**Direct Entry****1. Job Experience**

Satisfactory completion of at least 3 projects in supply and installation of the prestressing system in the past 3 years, each with a value of \$1.0 M or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

The manufacturer for the prestressing systems shall be operating a quality management system certified by an internationally recognized certifying body.

**3. Top Management** \*(See Remarks on the end page of this Appendix)

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

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**4. Technical Staff**

Professional (HKIE Corporate Member or equivalent) and technical staff experienced in the design of prestressed concrete bridges and the installation of prestressing systems. Local workforce capable of installing prestressing systems.

**5. Plant and Equipment** \*\* (See Remarks on the end page of this Appendix)

- a. Prestressing jack.
- b. Mechanical grout pump.
- c. Mechanical grout mixer.
- d. Strand feeder.

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**6. Office/Workshop Facilities**

Local office in Hong Kong is required.

**7. Training Facilities**

Not Applicable

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**8. Others**

Satisfactory technical information and method statements. Works must comply with Section 17 of the General Specification for Civil Engineering Works. Other equivalent national standards may be considered in lieu of the standards referred to in the Specification. Technical and testing report from an approved independent organisation to confirm compliance with the above standards must be submitted.

The manufacturer for the prestressing systems and the applicant must have established acceptable manufacturing and installation procedures and fully documented quality assurance systems. Visit to the factory may be required for this purpose. If such visits are not practicable, the applicant may be required to arrange for an independent report at his own cost.

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Managing Department : Highways Department

<b>Works Category</b>	<b>: <u>Prestressed Concrete Works for Highway Structures</u></b>	<b>Supplier / Specialist Contractor</b>
<b>Class</b>	<b><u>II</u></b>	<b><u>Supply of Prestressed Concrete Units</u></b>

**Brief Scope of Category/Class :**

The scope of work in this category and class covers the supply of prestressed concrete units for highway structures. The applicant will be included in this category and class for a particular prestressing system proposed in the application. The prestressing system must be a proprietary product.

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**Direct Entry****1. Job Experience**

Satisfactory completion of at least 3 projects in the fabrication of prestressed concrete units in the past 3 years, each with a value of \$2.0 M or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

The manufacturer for the prestressing systems shall be operating a quality management system certified by an internationally recognized certifying body.

**3. Top Management** <sup>\*(See Remarks on the end page of this Appendix)</sup>

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

**4. Technical Staff**

Professional (HKIE Corporate Member or equivalent) and technical staff experienced in the design of prestressed concrete bridges and the installation of prestressing systems. Workforce experienced in precast and prestressed concrete works.

**5. Plant and Equipment** <sup>\*\* (See Remarks on the end page of this Appendix)</sup>

- a. Lifting crane.
- b. Prestressing jacks.
- c. Mechanical grout pumps.
- d. Mechanical grout mixer.
- e. Concrete mixer.
- f. Concrete vibrator.
- g. Necessary equipment to fabricate casting moulds complete with tendon/strand anchor fittings.
- h. Concrete batching plant.
- i. Equipment for testing concrete.
- j. Curing facilities.

**6. Office/Workshop Facilities**

Local office in Hong Kong is required. The applicant must possess a permanent casting yard with the equipment listed above and adequate storage space.

**7. Training Facilities**

Not Applicable

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**Direct Entry**

**8. Others**

Satisfactory technical information and method statements. Works must comply with Sections 14, 15, 16 & 17 of the General Specification for Civil Engineering Works. Other equivalent national standards may be considered in lieu of the standards referred to in the Specification. Technical and testing report from an approved independent organisation to confirm compliance with the above standards must be submitted.

The manufacturer for the prestressing systems and the applicant must have established acceptable manufacturing procedures and fully documented quality assurance systems. Visit to the permanent casting yard may be required for this purpose. If such visits are not practicable, the applicant may be required to arrange for an independent report at his own cost.

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Managing Department: Architectural Services Department

**Works Category:** Radio Electronics Installation **Specialist Contractor**

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of VHF/UHF radio transceiver, basestation, repeater, microwave radio system and related ancillary equipment at hilltop site and different venues.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.2M; and</p> <p>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</p> <p>(c) If the contract is a term contract, all of the above requirements 3 (a) and 3 (b) shall be fulfilled in one works order.</p> <p>(4) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the radio electronics installation contractor for the project work.</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p>

A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(a) Contract value of the work related to the category under application for inclusion exceeds \$0.2M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the radio electronics installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant</p>		<p>(a) Contract value of the work related to the category under application for inclusion exceeds \$0.5M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the radio electronics installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant</p>



A. Entry on Probation	B. Confirmation	C. Direct Entry
parties of the concerned project.		parties of the concerned project.
<b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b>		<b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b>
<u>Technical Support Staff</u>		<u>Technical Support Staff</u>
Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.		Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.
Technician 1 no. Site supervisor 1 no. Draftsman 1 no.		Technician 1 no. Site supervisor 1 no. Draftsman 1 no.
<u>Craftsman</u>		<u>Craftsman</u>
Employ adequate nos. of Electronics Craftsman Minimum score required 40 marks Qualified Electronics Craftsman 20 marks Ordinary Electronics Craftsman 10 marks		Employ adequate nos. of Electronics Craftsman Minimum score required 40 marks Qualified Electronics Craftsman 20 marks Ordinary Electronics Craftsman 10 marks
<b>3. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small>		<b>3. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small>
Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 25</b> for list of typical equipment/tools and testing instruments required.		Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 25</b> for list of typical equipment/tools and testing instruments required.
<b>4. Office/Workshop Facilities</b>		<b>4. Office/Workshop Facilities</b>
Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m <sup>2</sup> and the minimum workshop + storage area shall be 25 m <sup>2</sup> . Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.		Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m <sup>2</sup> and the minimum workshop + storage area shall be 25 m <sup>2</sup> . Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>5. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>		<p><b>5. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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Managing Department : Architectural Services Department

Works Category : Repair and Restoration of Historic Buildings Specialist Contractor

**Brief Scope of Category :**

The scope of work in this category covers the repair and restoration of historic buildings and structures.

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Direct Entry

1. Job Experience

At least 3 examples of relevant works carried out in Hong Kong within the past 5 years

2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)

Not Applicable

3. Top Management <sup>\*(See Remarks on the end page of this Appendix)</sup>

Adequate standard of administration and 1 no. of site foreman with more than 3 years of relevant conservation working experience

4. Technical Staff

Specialist craftsmen/tradesmen with adequate qualification and skill in timber carvings, decorative plasterworks, decorative painting and artworks

5. Plant and Equipment <sup>\*\* (See Remarks on the end page of this Appendix)</sup>

Adequate source of traditional material including fair face green bricks, Chinese roof-tile and ceramics etc

6. Office/Workshop Facilities

Adequate office, workshop and store. Local office and local workshop in Hong Kong are required.

7. Training Facilities

Not Applicable

8. Others

Not Applicable

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Managing Department : Water Supplies Department

Works Category : Repair of Motors, Transformers and Switchgear

Specialist Contractor

**Brief Scope of Category :**

The scope of work in this category covers the repair of high and low voltage (up to and including 11,000 Volt) motors, transformers and switchgear and ancillary equipment installed in Government installations.

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## Direct Entry

**1. Job Experience**

The contractor should possess at least 5 years experience in repair of motors, transformers and switchgear. The electrical equipment required to be repaired in Water Supplies Department is listed in **Annex 26**.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

[Not Applicable](#)

**3. Top Management** \*(See Remarks on the end page of this Appendix)

One of the managers should possess minimum qualification of a Higher Certificate in Electrical Engineering or equivalent with at least 5 years relevant experience.

**4. Technical Staff**

The Contractor shall have in their employment at least four supervising engineering staff and twenty competent tradesmen. The supervising staff shall possess a Higher Certificate in Electrical Engineering and be registered as a Class H Electrical Worker under the Electricity Ordinance.

**5. Plant and Equipment** \*\* (See Remarks on the end page of this Appendix)

As stated in item 6 (Office/Workshop Facilities) below

**6. Office/Workshop Facilities**

The contractor should have a well-maintained workshop in Hong Kong with equipment as listed in **Annex 27**. The Engineer may visit the Contractor's workshop to inspect the equipment and facilities before approval is granted.

**7. Training Facilities**

[Not Applicable](#)

**8. Others**

Contractor shall be in frequent trading with one or more reputable manufacturers who are able to supply specialized materials and provide technical support for repair work when required.

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**Managing Department :** Highways Department

**Works Category :** Road Marking **Specialist Contractor**

**Brief Scope of Category :**

The scope of work in this category covers the laying of the various road markings.

**Definition of Probationary Status<sup>#</sup>**

The probation period is 3 years, during which the probationary contractor shall only be allowed to work as a subcontractor in government contracts and shall be working on not more than 2 government contracts at any one time. At the end of the probationary period or when the probationary contractor has satisfactorily completed road marking works up to a total value of HK\$ 3.0 million, the performance of the probationary contractor will be assessed to determine whether the contractor is eligible to be confirmed, or remains as a probationary contractor, or is required to be removed from the List.

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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Page 234 of this Appendix

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A. Entry On Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b> Satisfactory completion of less than 3 projects in road marking works in the past 3 years, each with a value of HK\$ 1 million or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b> <u>Not Applicable</u></p> <p><b>3. Top Management</b> <sup>*(See Remarks on the end page of this Appendix)</sup> <u>Not Applicable</u></p> <p><b>4. Technical Staff</b> Technical staff and work force experienced in road marking works.</p> <p><b>5. Plant and Equipment</b> <sup>** (See Remarks on the end page of this Appendix)</sup> Adequate equipment required for thermoplastic road markings :  <ul style="list-style-type: none"> <li>a. Spraying machine.</li> <li>b. Screeding machine.</li> <li>c. Grinding machine.</li> <li>d. Twin preheater.</li> </ul> </p> <p><b>6. Office/Workshop Facilities</b> <u>Not Applicable</u></p> <p><b>7. Training Facilities</b> <u>Not Applicable</u></p>	<p>The performance of the probationary contractor will be assessed at the end of the probationary period or when he has satisfactorily completed road marking works up to a total value of HK\$ 3.0 million. The requirements are the same as those required for "Direct Entry".</p>	<p>Satisfactory completion of at least 3 projects in road marking works in the past 3 years, each with a value of HK\$ 1 million or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.</p> <p><u>Not Applicable</u></p> <p><u>Not Applicable</u></p> <p>Technical staff and work force experienced in road marking works.</p> <p>Adequate equipment required for thermoplastic road markings :  <ul style="list-style-type: none"> <li>a. Spraying machine.</li> <li>b. Screeding machine.</li> <li>c. Grinding machine.</li> <li>d. Twin preheater.</li> </ul> </p> <p><u>Not Applicable</u></p> <p><u>Not Applicable</u></p>

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A. Entry On Probation	B. Confirmation	C. Direct Entry
<p><b>8. Others</b></p> <p>a. Satisfactory technical information and method statements. Works must comply with Section 12 of General Specification for Civil Engineering Works. Other equivalent national standards may be considered in lieu of the standards referred to in the Specification.</p> <p>b. Satisfactory site demonstration on laying various types of road marking materials to demonstrate that the laying techniques and workmanship comply with the specified requirements.</p>		<p>a. Satisfactory technical information and method statements. Works must comply with Section 12 of General Specification for Civil Engineering Works. Other equivalent national standards may be considered in lieu of the standards referred to in the Specification.</p> <p>b. Satisfactory site demonstration on laying various types of road marking materials to demonstrate that the laying techniques and workmanship comply with the specified requirements.</p>

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Managing Department : Civil Engineering and Development Department

Works Category : Soil and Rock Testing Specialist Contractor

**Brief Scope of Category :**

Contractors (or Laboratories) under this category shall provide services for testing of soil and rock samples which originate from ground investigation carried out in Hong Kong.

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## Direct Entry

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**1. Job Experience**

The Laboratory shall be able to provide at least the following services:

- (a) All soil tests included in Geospec 3 except the determination of particle size distribution by the pipette method (Test Methods 8.3 and 8.4), the determination of in-situ bulk density and in-situ dry density of soils by nuclear densometer method (Test Method 11.3), the determination of relative compaction of fill material (Test Method 11.4) and the direct shear test using large shear box apparatus (Test Method 16.2).
- (b) Preparation of soils from tube and block samples for examination, description and determination of bulk and dry densities, void ratio and degree of saturation.
- (c) Point load test on rock and the determination of water content, porosity and dry density of rock.
- (d) Determination of the direct shear strength of rock discontinuities.
- (e) Description of soil and rock to Geoguide 3.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

The Laboratory must have a quality system which meets the requirements of the Hong Kong Laboratory Accreditation Scheme (HOKLAS) appropriate to the testing services being provided, and be accredited by Hong Kong Accreditation Service (HKAS) under the HOKLAS for the prescribed soil tests. The full scope of accreditation shall be maintained at all times. If any amendments to Geospec 3 are promulgated in whatsoever form, the Laboratory shall seek and obtain accreditation for the relevant tests incorporating the amendments.

**3. Top Management** <sup>(See Remarks on the end page of this Appendix)</sup>

All management staff below shall satisfy the minimum qualifications and training requirements prescribed below. Staff competence will be assessed.

- (a) Quality Manager (1 no.) – responsible for the quality system
- (b) Laboratory Manager (1 no.) – responsible for the technical and administrative matters
- (c) Signatories (minimum 2 nos.) – responsible for signing all test certificates and reports

Qualifications, Training and Experience Requirements:(a) Quality Manager

The Quality Manager shall satisfy the minimum qualification requirements for Signatory Option A or B as set out below. In addition, he/she shall be fully conversant with the quality system of the Laboratory and shall have adequate knowledge and experience on laboratory quality management and internal quality audits.

(b) Laboratory Manager

The Laboratory Manager shall satisfy the minimum qualification and experience requirements for Signatory Option A, B or C as set out below. In addition, he/she shall have at least one year of experience in the management of a Laboratory, including the technical and administrative matters associated with the Laboratory's operation.

(c) Signatories of Test Certificates and Reports

The main and reserve Signatories shall possess a sufficient standard of English to understand the requirements of soil and rock testing standards and HOKLAS documents.

They shall satisfy the minimum qualification and experience requirements given in either Option A, B or C below and shall also be a HOKLAS Approved Signatory for the prescribed soil tests included in Geospec 3.

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**Direct Entry**Option A

Be in possession of an educational qualification acceptable to HKIE for Corporate Membership (Civil or Geotechnical Discipline) (Non-mature candidates), and have a minimum of five years of post-qualification civil or geotechnical engineering experience, with at least one year of experience in supervising the relevant types of soil and rock tests.

Option B

Be in possession of a Hong Kong polytechnic or technical institute Ordinary Certificate in Civil Engineering, or equivalent approved by Government, and have a minimum of seven years of post-qualification experience in construction materials testing, with at least two years in the relevant types of soil and rock tests, one year of which shall be in a supervisory role.

Option C

Be in possession of Grade E or above in five subjects including Physics, Mathematics and English (Syllabus B) in the Hong Kong Certificate of Education Examination (HKCEE), or equivalent approved by Government, and have a minimum of ten years of post-qualification experience in construction materials testing, with at least two years in the relevant types of soil and rock tests, one year of which shall be in a supervisory role.

**4. Technical Staff**

All technical staff below shall satisfy the minimum qualifications and training requirements prescribed below. Staff competence will be assessed.

- (a) Senior Laboratory Technician (minimum 1 no.) – responsible for organizing the testing operations
- (b) Laboratory Technicians (minimum 2 nos.) – responsible for carrying out testing and reporting
- (c) Laboratory Assistants (minimum 2 nos.) – responsible for simple tests under supervision
- (d) Semi-skilled Staff (adequate no.) – responsible for assisting in all tests under supervision

Qualifications, Training and Experience Requirements:(a) Senior Laboratory Technician

The person shall satisfy the minimum qualification and experience requirements given in either Option 1, 2 or 3 below:

Option 1

Be a qualified Laboratory Technician (Option 1) as defined in 4(b) below, and have a minimum of three years of experience in construction materials testing, with at least two years in the relevant types of soil and rock tests. Records of such experience shall be certified as accurate by the Signatory.

Option 2

Be a qualified Laboratory Technician (Option 2) as defined in 4(b) below, and have a minimum of six years of experience in construction materials testing, with at least two years in the relevant types of soil and rock tests. Records of such experience shall be certified as accurate by the Signatory.

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**Direct Entry**Option 3

Be a qualified Laboratory Technician (Option 3) as defined in 4(b) below, and have a minimum of eight years of experience in construction materials testing, with at least two years in the relevant types of soil and rock tests. Records of such experience shall be certified as accurate by the Signatory.

(b) Laboratory Technicians

The persons shall satisfy the minimum qualification and experience requirements given under Option 1, 2 or 3 below:

Option 1

Be in possession of a Hong Kong polytechnic or technical institute Ordinary Certificate in Civil Engineering, or equivalent approved by Government, and have adequate on-the-job training on the practical and technical aspects of testing covering each of the tests to be carried out.

Option 2

Be in possession of Grade E or above in five subjects including Physics, Mathematics and English (Syllabus B) in the Hong Kong Certificate of Education Examination (HKCEE), or equivalent approved by Government, and have adequate on-the-job training on the practical and technical aspects of testing covering each of the tests to be carried out.

Option 3

Be a qualified Laboratory Assistant as defined in 4(c) below, in possession of Grade E or above in English (Syllabus B) in the Hong Kong Certificate of Education Examination, or equivalent approved by Government, and have a minimum of two years of post-qualification experience in the relevant types of tests and adequate on-the-job training on the practical and technical aspects of testing covering each of the tests to be carried out. Records of such experience shall be certified as accurate by the supervising Senior Laboratory Technician or Signatory.

(c) Laboratory Assistants

The persons shall be able to read and understand the work instructions of the Laboratory and have adequate on-the-job training on the practical and technical aspects of testing covering each of the tests to be carried out.

(d) Semi-skilled Staff

The persons shall have adequate training in the operations required to be performed in the Laboratory.

**5. Plant and Equipment** \*\* (See Remarks on the end page of this Appendix)

The laboratory shall possess the following minimum numbers of major items of equipment:

Triaxial compression machines (6 nos.), triaxial cells and all accessories (12 nos.), oedometer cells (6 nos.), and direct shear machine (1 no.)

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## Direct Entry

**6. Office/Workshop Facilities**

All applicants must possess or set up a place of business in Hong Kong. Laboratory set-up, equipment and accommodation will be audited and assessed.

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**7. Training Facilities**

Training records/competence log on technical staff are required.

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**8. Others**

The prescribed minimum numbers of management and technical staff shall be working full-time for the Laboratory. The Laboratory must have satisfactory accommodation and equipment to carry out the prescribed soil and rock tests to relevant testing standards. It must demonstrate that it continues to satisfy all the criteria through submission of documentary evidence and records, and during audit visits by Government representatives. It must also demonstrate satisfactory performance in proficiency testing arranged from time to time.

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When applying to enter the List, the Laboratory shall provide copies of the following to the Government for assessment:

- (a) quality manuals (including test method manuals);
- (b) a test directory listing all soil and rock tests which the Laboratory can perform and the test methods (including the version of amendments to relevant test standards) adopted;
- (c) organization chart of the Laboratory;
- (d) a list of the names of the proposed main and reserve Signatories, Quality Manager and Laboratory Manager, and of the Laboratory's Technical Personnel, as well as curriculum vitae giving their qualifications and experience, together with self-declaration letters on their full-time employment status with the Laboratory;
- (e) a competence log sheet giving the tests/operations which each of the Technical Personnel is competent to perform/supervise;
- (f) a plan showing the layout and dimensions of the testing areas and sample storage and preparation areas of the Laboratory, with environment controls stated on it; and
- (g) a schedule giving the name of the manufacturer, model, identification marking, specification details of major equipment (including triaxial, direct shear, oedometer, CBR and point load tests equipment) and their calibration records required for carrying out the tests.

On acceptance on the List, whenever changes to any of the above items (including changes of staff) have taken place, the Laboratory shall provide updated copies of the item to the Government within one week of the change taking place. Also, in January and July each year, the Laboratory shall submit to the Government the latest organization chart of the Laboratory and a summary of the total number of tests carried out for each type of standard and non-standard tests in the preceding six months for both Government and other clients.

Government representatives may carry out quality or technical audits of the Laboratory at any time. The Laboratory shall provide every assistance to enable the audits to be carried out. During the audits, the Laboratory's records related to the tests carried out (including records of calibration and checking of equipment), as well as training records, internal audit records and proof of qualifications and experience of personnel may be examined. Laboratory Personnel may be interviewed and required to perform specific tests and calibrations in part or in full.

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格式化: 靠右

Managing Department : Architectural Services Department

Works Category : Space Frame Systems Supplier / Specialist Contractor

**Brief Scope of Category :**

The scope of work in this category covers the supply and supervision of the erection of the space frames, and the design in the case of modification to suit the specified roof system.

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格式化: 靠右

Direct Entry

1. Job Experience

The system has been satisfactorily used in the past 5 years with good references.

2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)

Not Applicable.

3. Top Management <sup>\*(See Remarks on the end page of this Appendix)</sup>

The top management includes the agent's director.

4. Technical Staff

Manufacturer's designer and site/erection supervisor.

5. Plant and Equipment <sup>\*\* (See Remarks on the end page of this Appendix)</sup>

As required by the system.

6. Office/Workshop Facilities

The agent of the system must have a local office in Hong Kong and local representative is needed.

7. Training Facilities

Not Applicable.

8. Others

Certified strength of nodal joints.

刪除: NA

刪除: See Note in Page No. 234

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格式化: 靠右

Managing Department : Highways Department

Works Category : Specialized Operations for Highway Structures Specialist Contractor  
Class I : Guniting

**Brief Scope of Category/Class :**

The scope of work in this category and class covers the guniting works for construction and/or repair of concrete highway structures.

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格式化: 靠右

Direct Entry

- 1. **Job Experience**  
Satisfactory completion of at least 3 projects in guniting works for the construction and/or repair of concrete highway structures in the past 3 years, each with a value of \$ 0.1 M or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.
- 2. **Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**  
[Not Applicable](#)
- 3. **Top Management** \*(See Remarks on the end page of this Appendix)  
Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.
- 4. **Technical Staff**  
Local skilled workforce in guniting.
- 5. **Plant and Equipment** \*\* (See Remarks on the end page of this Appendix)
  - a. Air compressor.
  - b. Guniting machine with necessary accessories.
  - c. Concrete breaking hammer (pneumatic/electric).
  - d. Scabbling hammer.
  - e. Spray machine with spray gun.
  - f. Water jet pump.
- 6. **Office/Workshop Facilities**  
Local office in Hong Kong is required.
- 7. **Training Facilities**  
[Not Applicable](#)
- 8. **Others**  
Satisfactory technical information and method statements.  
Satisfactory site demonstrations. The applicant is also required to demonstrate procedures for the treatment of corroded reinforcement prior to guniting.

删除: NA

删除: See Note in Page No. 234

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格式化: 靠右

Managing Department : Highways Department

Works Category	:	<u>Specialized Operations for Highway Structures</u>	Specialist Contractor
Class <u>II</u>	:	<u>Waterproofing of Concrete Surfaces</u>	

**Brief Scope of Category/Class :**

The scope of work in this category and class covers the waterproofing of surfaces of concrete highway structures, e.g. footbridge roofs or the like.

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Direct Entry

- 1. **Job Experience**  
Satisfactory completion of at least 3 projects in waterproofing of surfaces of concrete highway structures in the past 3 years, each with a value of \$ 0.2 M or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.
- 2. **Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**  
[Not Applicable](#)
- 3. **Top Management** <sup>\*(See Remarks on the end page of this Appendix)</sup>  
Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.
- 4. **Technical Staff**  
Local skilled workforce in waterproofing works.
- 5. **Plant and Equipment** <sup>\*\* (See Remarks on the end page of this Appendix)</sup>  
Equipment specified by the manufacturer of the proprietary waterproofing material.
- 6. **Office/Workshop Facilities**  
Local office in Hong Kong is required.
- 7. **Training Facilities**  
[Not Applicable](#)
- 8. **Others**  
Satisfactory technical information and method statements.  
Satisfactory site demonstrations.  
Works must comply with Section 20: Part 1 of the General Specification for Civil Engineering Works.

刪除: NA

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格式化: 靠右

Managing Department : Highways Department

Works Category	: <u>Specialized Operations for Highway Structures</u>	Specialist Contractor
Class <u>III</u>	: <u>Repair of Cracked Concrete by Resin Injection</u>	
 <b>Brief Scope of Category/Class :</b>		
The scope of work in this category and class covers the resin injection for repair of cracks in structural concrete for highway structures.		

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## Direct Entry

**1. Job Experience**

Satisfactory completion of at least 3 projects involving resin injection for repair of cracks in structural concrete in the past 3 years, each with a value of \$ 15,000 or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

[Not Applicable](#)

**3. Top Management** <sup>\*(See Remarks on the end page of this Appendix)</sup>

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

**4. Technical Staff**

Local workforce skilled in repair of concrete structures by resin injection.

**5. Plant and Equipment** <sup>\*\* (See Remarks on the end page of this Appendix)</sup>

- a. Resin injection pump with pressure control.
- b. Mechanical mixer for resin.
- c. Air compressor.

**6. Office/Workshop Facilities**

Local office in Hong Kong is required.

**7. Training Facilities**

[Not Applicable](#)

**8. Others**

Satisfactory technical information and method statements.  
Satisfactory site demonstrations.

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Managing Department : Highways Department

Works Category : Specialized Operations for Highway Structures Specialist Contractor  
Class IV : Non-destructive Testing of Welds

**Brief Scope of Category/Class :**

The scope of work in this category and class covers the non-destructive weld-testing of structural steelworks for highway structures.

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Direct Entry

1. Job Experience

Satisfactory completion of at least 3 projects in non-destructive weld-testing on structural steel works in the past 3 years, each with a value of \$ 0.1 M or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.

2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)

Not Applicable

刪除: NA

3. Top Management <sup>\*(See Remarks on the end page of this Appendix)</sup>

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

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4. Technical Staff

Professional and technical staff with relevant qualifications and experience in non-destructive testing of welds.

5. Plant and Equipment <sup>\*\* (See Remarks on the end page of this Appendix)</sup>

- a. Penetrant (dye and fluorescent) flaw detection.
- b. Magnetic particle flaw detection.
- c. Radiological flaw detection, including dark room facilities.
- d. Ultrasonic flaw detection.

刪除: See Note in Page No. 234

6. Office/Workshop Facilities

Local office in Hong Kong is required.

7. Training Facilities

Not Applicable

刪除: NA

8. Others

Satisfactory technical information, method statements and fully documented quality assurance system.  
Satisfactory site demonstrations.  
Works must comply with Clause 18.96(4) of the General Specification for Civil Engineering Works.

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Managing Department : Highways Department

Works Category : Specialized Operations for Highway Structures Specialist Contractor  
Class V : Hot Dip Galvanising

**Brief Scope of Category/Class :**

The scope of work in this category and class covers the hot dip galvanising of structural steelworks for highway structures.

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**Direct Entry****1. Job Experience**

Satisfactory completion of at least 3 projects in hot dip galvanising of structural steelworks in the past 3 years, each with a value of \$ 0.2 M or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

[Not Applicable](#)

**3. Top Management** \*(See Remarks on the end page of this Appendix)

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

**4. Technical Staff**

Technical staff with relevant qualifications and experience.

**5. Plant and Equipment** \*\* (See Remarks on the end page of this Appendix)

- a. Alkaline degreasing tank.
- b. Acid pickling tank.
- c. Rinsing tank.
- d. Fluxing tank.
- e. Drying tank.
- f. Zinc bath with temperature control.
- g. Water quenching/air cooling tank.
- h. Coating thickness gauge.
- i. Lifting cranes.
- j. Laboratory facilities for testing chemicals used in galvanising.

**6. Office/Workshop Facilities**

Local office in Hong Kong is required. The applicant must possess a galvanising facility with the equipment listed above.

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7. Training Facilities

Not Applicable

刪除: NA

8. Others

Satisfactory technical information, method statements and fully documented quality assurance system.

Satisfactory demonstrations.

Works must comply with Clause 18.53 to 18.60 and 18.61(2) of the General Specification for Civil Engineering Works.

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Managing Department: Architectural Services Department

**Works Category:** Steam and Compressed Air Installation **Specialist Contractor**

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of steam and compressed air installation including laundry equipment, boiler, steam distribution system, compressed air plant etc.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(4) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.5M; and</p> <p>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</p> <p>(c) If the contract is a term contract, all of the above requirements 4 (a) and 4 (b) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the steam and</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>

A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds \$0.5M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the steam and compressed air installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the</p>	<p>compressed air installation contractor for the project work.</p>	<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the category under application for inclusion exceeds \$1M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the steam and compressed air installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the</p>

A. Entry on Probation	B. Confirmation	C. Direct Entry												
<p>concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical or Building Services discipline) with adequate and relevant project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="107 1034 604 1104"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.		<p>concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical or Building Services discipline) with adequate and relevant project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1292 1034 1792 1104"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.
Technician	2 nos.													
Site supervisor	2 nos.													
Draftsman	1 no.													
Technician	2 nos.													
Site supervisor	2 nos.													
Draftsman	1 no.													

A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(A) Mechanical Fitter Minimum score required 20 marks Qualified Mechanical Fitter 20 marks Intermediate Mechanical Fitter 15 marks Ordinary Mechanical Fitter 8 marks</p> <p>(B) Electrician Minimum score required 20 marks Qualified Electrician 20 marks Intermediate Electrician 15 marks Ordinary Electrician 8 marks</p> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:</p> <p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</p> <p>The REW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p>		<p>(A) Mechanical Fitter Minimum score required 20 marks Qualified Mechanical Fitter 20 marks Intermediate Mechanical Fitter 15 marks Ordinary Mechanical Fitter 8 marks</p> <p>(B) Electrician Minimum score required 20 marks Qualified Electrician 20 marks Intermediate Electrician 15 marks Ordinary Electrician 8 marks</p> <p><u>Statutory Registration</u> The applicant shall have staff meeting the following statutory registration requirements:</p> <p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade A2 – 1 no. (minimum)</p> <p>The REW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p>
<p><b>4. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 28</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 40 m<sup>2</sup>. Documentary evidence</p>		<p><b>4. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 28</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 40 m<sup>2</sup>. Documentary evidence</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>		<p>(e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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Managing Department : Highways Department

Works Category : Structural Steelwork Specialist Contractor

**Brief Scope of Category :**

The scope of work in this category and class covers the fabrication and erection of structural steelwork for highway structures.

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## Direct Entry

**1. Job Experience**

Satisfactory completion of at least 3 projects in the fabrication and erection of structural steelworks for permanent civil engineering or building structures in the past 3 years, each with a value of \$ 0.5 M or more. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

[Not Applicable](#)

**3. Top Management** <sup>\*(See Remarks on the end page of this Appendix)</sup>

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

**4. Technical Staff**

Professional and technical staff experienced in the design, fabrication and erection of structural steelwork.

Local workforce for erection of steelwork.

At least 3 qualified welders to BS 4570, BS EN287-1 or BS 4872:Part 1 as appropriate. Copies of their certificates are required.

**5. Plant and Equipment** <sup>\*\* (See Remarks on the end page of this Appendix)</sup>

- a. Welding plant.
- b. Lifting crane.
- c. Drilling machine.
- d. Bending machine.
- e. Lathe.
- f. Shearing machine.
- g. Flame cutting machine.
- h. Plate rolling machine.
- i. Grit blasting equipment.
- j. Grinder.
- k. Planing, shaping and slotting machine.
- l. Milling machine.
- m. Boring and surfacing machines.
- n. Oven/cabinet with drying facilities for storing electrodes.

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Direct Entry

6. Office/Workshop Facilities

Local office in Hong Kong is required. Fabrication yard with the equipment listed above. The applicant may be required to arrange for a visit to the fabrication yard.

7. Training Facilities

Not Applicable

刪除: NA

8. Others

Satisfactory technical information, method statements and fully documented quality assurance and control system for fabrication and erection of steelwork. Works must comply with Section 18 of the General Specification for Civil Engineering Works.

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Managing Department : Highways Department

Works Category : Supply and Installation of Bearings for Highway Structures Specialist Contractor  
Class I : Mechanical Bearings

**Brief Scope of Category/Class :**

The scope of work in this category and class covers the supply and installation of mechanical bridge bearings for highway structures. The applicant will be included in this category and class for the supply and installation of a particular bearing proposed in the application. The bearing must be a proprietary product.

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**Direct Entry****1. Job Experience**

Satisfactory performance of the bearing in service. A list of job references where the bearing has been installed, together with at least 3 references from the clients or maintenance authorities for projects completed in the past 3 years, must be submitted. The number of bearings installed in each project must not be less than 6. The applicant may be required to arrange site visits to verify the references.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

The manufacturer for the bearing shall be operating a quality management system certified by an internationally recognized certifying body.

**3. Top Management** \*(See Remarks on the end page of this Appendix)

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

刪除: See Note in Page No. 234

**4. Technical Staff**

Professional and technical staff experienced in bridge design and installation of bearings.  
Local workforce capable of installing the bearing. A mock-up installation may be required.

**5. Plant and Equipment** \*\* (See Remarks on the end page of this Appendix)

- a. Equipment required for the installation of the bearing as specified by the manufacturer.
- b. Mechanical grout mixer.
- c. Mechanical grout pump.

刪除: See Note in Page No. 234

**6. Office/Workshop Facilities**

Local office in Hong Kong is required.

**7. Training Facilities**

Not Applicable

刪除: NA

**8. Others**

Satisfactory technical information and method statements. The design, manufacture and installation must comply with Section 20: Part 2 of the General Specification for Civil Engineering Works and Section 9 of the Structures Design Manual for Highways and Railways. Other equivalent national standards may be considered in lieu of the standards referred to in the Specification. Technical and testing report from an approved independent organisation to confirm compliance with the above standards must be submitted.

The manufacturer for the bearing and the applicant must have established acceptable manufacturing and installation procedures and fully documented quality assurance systems. Visit to the factory may be required for this purpose. If such visits are not practicable, the applicant may be required to arrange for an independent report at his own cost.

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Managing Department : Highways Department

Works Category : Supply and Installation of Bearings for Highway Structures Specialist Contractor  
Class II : Elastomeric Bearings

**Brief Scope of Category/Class :**

The scope of work in this category and class covers the supply and installation of elastomeric bridge bearings for highway structures. The applicant will be included in this category and class for the supply and installation of a particular bearing proposed in the application. The bearing must be a proprietary product.

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**Direct Entry****1. Job Experience**

Satisfactory performance of the bearing in service. A list of job references where the bearing has been installed, together with at least 3 references from the clients or maintenance authorities for projects completed in the past 3 years, must be submitted. The number of bearings installed in each project must not be less than 6. The applicant may be required to arrange site visits to verify the references.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

The manufacturer for the bearing shall be operating a quality management system certified by an internationally recognized certifying body.

**3. Top Management** <sup>\*(See Remarks on the end page of this Appendix)</sup>

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

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**4. Technical Staff**

Professional and technical staff experienced in bridge design and installation of bearings.  
Local workforce capable of installing the bearing. A mock-up installation may be required.

**5. Plant and Equipment** <sup>\*\*\*(See Remarks on the end page of this Appendix)</sup>

- a. Equipment required for the installation of the bearing as specified by the manufacturer.
- b. Mechanical grout mixer.
- c. Mechanical grout pump.

刪除: See Note in Page No. 234

**6. Office/Workshop Facilities**

Local office in Hong Kong is required.

**7. Training Facilities**

[Not Applicable](#)

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**8. Others**

Satisfactory technical information and method statements. The design, manufacture and installation must comply with Section 20: Part 2 of the General Specification for Civil Engineering Works and Section 9 of the Structures Design Manual for Highways and Railways. Other equivalent national standards may be considered in lieu of the standards referred to in the Specification. Technical and testing report from an approved independent organisation to confirm compliance with the above standards must be submitted.

The manufacturer for the bearing and the applicant must have established acceptable manufacturing and installation procedures and fully documented quality assurance systems. Visit to the factory may be required for this purpose. If such visits are not practicable, the applicant may be required to arrange for an independent report at his own cost.

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Managing Department : Highways Department

Works Category : Supply and Installation of Expansion Joints for Highway Structures Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers the supply and installation of expansion joints for vehicular bridges. The applicant will be included in this category for the supply and installation of a particular expansion joint proposed in the application. The expansion joint must be a proprietary product.

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## Direct Entry

**1. Job Experience**

Satisfactory performance of the expansion joint in service. A list of job references where the expansion joint has been installed, together with at least 3 references from the clients or maintenance authorities for projects completed in the past 3 years, must be submitted. The number of expansion joints installed in each project must not be less than 3. The applicant may be required to arrange site visits to verify the references.

**2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)**

The manufacturer for the expansion joint shall be operating a quality management system certified by an internationally recognized certifying body.

**3. Top Management** <sup>\*(See Remarks on the end page of this Appendix)</sup>

Top management shall possess relevant professional and management experience and have sufficient commitment for control of the works.

**4. Technical Staff**

Professional and technical staff experienced in bridge design and installation of expansion joints.  
Local workforce capable of installing the expansion joint. A mock-up installation may be required.

**5. Plant and Equipment** <sup>\*\* (See Remarks on the end page of this Appendix)</sup>

- a. Equipment required for the installation of the expansion joint as specified by the manufacturer.
- b. Pneumatic breaker with compressor.
- c. Oven for melting binder.
- d. Welding equipment.
- e. Concrete vibrator.
- f. Mechanical mortar mixer.
- g. Generator.
- h. Concrete cutter.
- i. Gas burner.
- j. Air blower.

**6. Office/Workshop Facilities**

Local office in Hong Kong is required.

**7. Training Facilities**

Not Applicable

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**Direct Entry****8. Others**

Satisfactory technical information and method statements. The design, manufacture and installation must comply with Section 20: Part 4 of the General Specification for Civil Engineering Works and Section 11 of the Structures Design Manual for Highways and Railways. Other equivalent national standards may be considered in lieu of the standards referred to in the Specification. Technical and testing report from an approved independent organisation to confirm compliance with the above standards must be submitted.

The manufacturer for the expansion joint and the applicant must have established acceptable manufacturing and installation procedures and fully documented quality assurance systems. Visit to the factory may be required for this purpose. If such visits are not practicable, the applicant may be required to arrange for an independent report at his own cost.

Trial installation on a private/Government work site may be required. For the latter case, the trial will be subject to the applicant accepting the liability for replacing the joint with an approved joint should the joint be found unsatisfactory. The assessment period of the trial is 12 months.

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**Managing Department :** Water Supplies Department

**Works Category :** Supply and Installation of Pumpsets and Associated Pipework **Specialist Contractor**

**Brief Scope of Category :**

The scope of work in this category covers the supply, fabrication, installation, testing, and delivery to site of pumpsets, pipework, fittings, valves and the associated equipment.

**Definition of Probationary Status**

Contractors complying with the criteria of 'Entry On Probation' will be admitted initially on probation and will then be promoted to confirmation status after having complied with the criteria of 'Confirmation'. Contractors complying with the criteria of 'Direct Entry' will be admitted directly to confirmation status.

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A. Entry On Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b> Possess at least five years experience in the supply and installation of large pumping plant (with an input power requirement not less than 250kW), either in the capacity of a contractor or sub-contractor in private sector or Government contracts. The contractor should either have an agency agreement with a reputable pump manufacturer or have a close-link relation with (such as a subsidiary company of) a contractor with sufficient experience in the supply and installation of large pumping plant (with an input power requirement over 500kW) for direct technical support and services.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Not Applicable</u></p>	<p>Satisfactory completion of one contract without any adverse report for the duration (including the maintenance period) of the contract. The contract should consist of at least a large pumpset with an input power of 500 kW.</p> <p><u>Not Applicable</u></p>	<p>Possess at least five years experience in the supply and installation of large pumping plant (with an input power requirement of 500kW and over), either in the capacity of a contractor or sub-contractor in private sector or Government contracts.</p> <p><u>Not Applicable</u></p>
<p><b>3. Top Management</b> <sup>*(See Remarks on the end page of this Appendix)</sup> At least one of the managers and professional staff should possess minimum qualification of corporate membership of a recognized professional institution in mechanical engineering discipline i.e. MIMechE, MHKIE or equivalent with relevant experience.</p> <p><b>4. Technical Staff</b> Minimum of three qualified technical and supervisory persons as well as 10 tradesmen/workers. The technical and supervisory staff should possess minimum qualification of Higher Certificate in Mechanical Engineering or equivalent with at least five years relevant experience.</p>	<p>The contractor can provide proof that the company's management capabilities remain the same or have become better than that at the time when the company was admitted to the List on probation.</p> <p>The contractor can provide proof that the company's technical capabilities remain the same or have become better than that at the time when the company was admitted to the List on probation.</p>	<p>At least one of the managers and professional staff should possess minimum qualification of corporate membership of a recognized professional institution in mechanical engineering discipline i.e. MIMechE, MHKIE or equivalent with relevant experience.</p> <p>Minimum of three qualified technical and supervisory persons as well as 10 tradesmen/workers. The technical and supervisory staff should possess minimum qualification of Higher Certificate in Mechanical Engineering or equivalent with at least five years relevant experience.</p>

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<u>A. Entry On Probation</u>	<u>B. Confirmation</u>	<u>C. Direct Entry</u>
<p>5. <u>Plant and Equipment</u> <small>***(See Remarks on the end page of this Appendix)</small> <u>Not Applicable</u></p>	<u>Not Applicable</u>	<u>Not Applicable</u>
<p>6. <u>Office/Workshop facilities</u> <u>A workshop in Hong Kong furnished with the necessary tools, specialised equipment and other supporting facilities.</u></p>	<p><u>The contractor can provide proof that the company's workshop facilities remain the same or have become better than that at the time when the company was admitted to the List on probation.</u></p>	<p><u>A workshop in Hong Kong furnished with the necessary tools, specialised equipment and other supporting facilities.</u></p>
<p>7. <u>Training Facilities</u> <u>Not Applicable</u></p>	<u>Not Applicable</u>	<u>Not Applicable</u>
<p>8. <u>Others</u> <u>The Contractor should provide full details of the equipment supplied and installed under previous contracts to demonstrate his capability of complying with WSD's standard technical specification.</u></p>	<p><u>The Contractor should provide full details of the equipment supplied and installed under previous contracts to demonstrate his capability of complying with WSD's standard technical specification.</u></p>	<p><u>The Contractor should provide full details of the equipment supplied and installed under previous contracts to demonstrate his capability of complying with WSD's standard technical specification.</u></p>

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Managing Department : Water Supplies Department

Works Category : Supply and Installation of Water Treatment Plant

Specialist Contractor

**Brief Scope of Category :**

The scope of work in this category covers the design, manufacture and installation of water treatment plant in public supply systems for treating raw water to potable standard acceptable to the Water Supplies Department and for processing water treating effluent to a quality acceptable for disposal.

**Definition of Probationary Status**

Except in the most exceptional circumstances, a contractor will be admitted initially on probation.

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A. Entry On Probation	B. Confirmation
<p><b>1. Job Experience</b> The applicant should possess a minimum of 10 years experience in the design, manufacture and installation of water treatment plant in public supply systems for treating raw water to potable standard acceptable to the Water Supplies Department and for processing water treatment effluent to a quality acceptable for disposal. Also, they should have completed successfully 2 water treatment works each of capacity at least 150 Mld in the past 10 years.</p>	<p>The probationary contractor has satisfactorily completed one contract and he has not received any adverse report for the duration (including the maintenance period) of the contract.</p>
<p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b> <a href="#">Not Applicable</a></p>	<p><a href="#">Not Applicable</a></p>
<p><b>3. Top Management</b> <small>*(See Remarks on the end page of this Appendix)</small> <a href="#">Not Applicable</a></p>	<p><a href="#">Not Applicable</a></p>
<p><b>4. Technical Staff</b> The applicant should have an established organization comprising qualified professional and technical staff from Civil, Electrical, Mechanical and Chemical Engineering fields with at least 5 years relevant experience.</p>	<p>see item (8)</p>
<p><b>5. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small> <a href="#">Not Applicable</a></p>	<p><a href="#">Not Applicable</a></p>
<p><b>6. Office/Workshop Facilities</b> The applicant should have local supporting workshop facilities and allow inspection of such facilities by Government representatives.</p>	<p>see item (8)</p>
<p><b>7. Training Facilities</b> <a href="#">Not Applicable</a></p>	<p><a href="#">Not Applicable</a></p>
<p><b>8. Others</b> The applicant should have at least 3 years trading record with manufacturers who are able to supply specialized materials and equipment for the work and provide him with technical support when required.</p>	<p>The probationary contractor can provide proof that the company's financial, technical and management capabilities have remained the same or have become better than the time when he was admitted on the List on probation.</p>

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Managing Department : Highways Department

Works Category : Supply of Bituminous Pavement Materials and Construction of  
Special Bituminous Surfacing

Supplier / Specialist Contractor

**Brief Scope of Category :**

The scope of work in this category covers the supply of the bituminous pavement materials and the laying of the special bituminous surfacing as described in Works Branch Technical Circular No. 17/96.

**Definition of Probationary Status**

The probation period is 2 years. The probationary contractor will be assessed at the end of the probationary period on the basis of capability and performance locally to determine whether the contractor is eligible to be confirmed, or remains as a probationary contractor, or is required to be removed from the List.

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A. Entry On Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b> Satisfactory completion of 1 to 3 projects in supply of bituminous pavement materials and construction of special bituminous surfacing in the past 3 years or in lieu of which, satisfactory completion of trial production and laying of bituminous pavement materials and/or special bituminous surfacing. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.</p>	<p>The probationary contractor will be assessed at the end of the probationary period on the basis of capability and performance locally. The requirements are the same as those required for "Direct Entry".</p>	<p>Satisfactory completion of at least 3 projects in supply of bituminous pavement materials and construction of special bituminous surfacing in the past 3 years, demonstrating adequate management and technical support for a general supply of bituminous pavement materials to the local market. References on these projects from consulting engineers (architects or clients if there is no consulting engineer) must be submitted which may be verified by paying site visits.</p>
<p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b> <a href="#">Not Applicable</a></p>		<p><a href="#">Not Applicable</a></p>
<p><b>3. Top Management</b> <sup>*(See Remarks on the end page of this Appendix)</sup> <a href="#">Not Applicable</a></p>		<p><a href="#">Not Applicable</a></p>
<p><b>4. Technical Staff</b> Professional, technical staff and work force experienced in the supply of bituminous pavement materials and construction of special bituminous surfacing.</p>		<p>Professional, technical staff and work force experienced in the supply of bituminous pavement materials and construction of special bituminous surfacing.</p>
<p><b>5. Plant and Equipment</b> <sup>***(See Remarks on the end page of this Appendix)</sup> Adequate equipment required :</p> <ol style="list-style-type: none"> <li>Mixing plant having at least four separate cold feed bins, four hot storage bins, a rotary drum dryer, temperature monitoring devices, and sampling devices for taking samples of hot aggregates, fillers and bitumen before mixing.</li> <li>Heating and storage tank fitted with circulating pumps and thermostatically controlled heaters for bitumen.</li> <li>Heating and storage tank fitted with high shear mixer for pre-blended type of modified binder.</li> <li>Insulated surge bin fitted with heating devices to maintain temperature of the hot-mix.</li> </ol>		<p>Adequate equipment required :</p> <ol style="list-style-type: none"> <li>Mixing plant having at least four separate cold feed bins, four hot storage bins, a rotary drum dryer, temperature monitoring devices, and sampling devices for taking samples of hot aggregates, fillers and bitumen before mixing.</li> <li>Heating and storage tank fitted with circulating pumps and thermostatically controlled heaters for bitumen.</li> <li>Heating and storage tank fitted with high shear mixer for pre-blended type of modified binder.</li> <li>Insulated surge bin fitted with heating devices to maintain temperature of the hot-mix.</li> </ol>

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A. Entry On Probation	B. Confirmation	C. Direct Entry
<p>e. Measuring and weighing equipment for batching.</p> <p>f. Vehicles for transportation of bituminous materials.</p> <p>g. Self-propelled paving machine with a screw auger and attached screed.</p> <p>h. Smooth three-wheeled steel-wheeled roller with a mass of between 6 tonnes and 12 tonnes or vibratory tandem steel-wheeled roller with an effective mass of between 6 tonnes and 12 tonnes.</p> <p>i. Smooth pneumatic tyred-roller with a mass of between 12 tonnes and 25 tonnes, and with not less than seven overlapping wheels.</p> <p>j. Tack coat spraying machine.</p> <p>k. Mechanical rammers, vibrating plates and hand-tools for compaction work.</p> <p>l. Equipment for testing related to the production and laying of bituminous materials.</p>		<p>e. Measuring and weighing equipment for batching.</p> <p>f. Vehicles for transportation of bituminous materials.</p> <p>g. Self-propelled paving machine with a screw auger and attached screed.</p> <p>h. Smooth three-wheeled steel-wheeled roller with a mass of between 6 tonnes and 12 tonnes or vibratory tandem steel-wheeled roller with an effective mass of between 6 tonnes and 12 tonnes.</p> <p>i. Smooth pneumatic tyred-roller with a mass of between 12 tonnes and 25 tonnes, and with not less than seven overlapping wheels.</p> <p>j. Tack coat spraying machine.</p> <p>k. Mechanical rammers, vibrating plates and hand-tools for compaction work.</p> <p>l. Equipment for testing related to the production and laying of bituminous materials.</p>
<p><b>6. Office/Workshop Facilities</b> <u>Not Applicable</u></p>		<p><u>Not Applicable</u></p>
<p><b>7. Training Facilities</b> <u>Not Applicable</u></p>		<p><u>Not Applicable</u></p>
<p><b>8. Others</b></p> <p>a. Satisfactory technical information and method statements. Works including the design mix and details of composition of the materials must comply with Section 9 of General Specification for Civil Engineering Works and/or other specified requirements. Other equivalent national standards may be considered in lieu of the standards referred to in the Specifications.</p>		<p>a. Satisfactory technical information and method statements. Works including the design mix and details of composition of the materials must comply with Section 9 of General Specification for Civil Engineering Works and/or other specified requirements. Other equivalent national standards may be considered in lieu of the standards referred to in the Specifications</p>

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A. Entry On Probation	B. Confirmation	C. Direct Entry
<ul style="list-style-type: none"> <li>b. Acceptable manufacturing details of the bituminous pavement material and quality control procedure during manufacture. The applicant is also required to arrange visits to inspect the facilities where the bituminous pavement material is manufactured. Where such facilities are overseas and if it is not practical to carry out an inspection, the applicant may be required to arrange for an independent report on these aspects at his own cost.</li> <li>c. Satisfactory site demonstration in construction of special bituminous surfacing to demonstrate that the techniques and workmanship comply with the specified requirements.</li> <li>d. Proof of meeting building requirements and showing the proper land use of the bituminous material mixing plant from Buildings Department, Lands Department and Planning Department are required.</li> <li>e. The applicant must also meet the environmental requirements of Environmental Protection Department for the production of bituminous materials.</li> </ul>		<ul style="list-style-type: none"> <li>b. Acceptable manufacturing details of the bituminous pavement material and quality control procedure during manufacture. The applicant is also required to arrange visits to inspect the facilities where the bituminous pavement material is manufactured. Where such facilities are overseas and if it is not practical to carry out an inspection, the applicant may be required to arrange for an independent report on these aspects at his own cost.</li> <li>c. Satisfactory site demonstration in construction of special bituminous surfacing to demonstrate that the techniques and workmanship comply with the specified requirements.</li> <li>d. Proof of meeting building requirements and showing the proper land use of the bituminous material mixing plant from Buildings Department, Lands Department and Planning Department are required.</li> <li>e. The applicant must also meet the environmental requirements of Environmental Protection Department for the production of bituminous materials.</li> </ul>

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**Managing Department:** Architectural Services Department

**Works Category:** Survey of Government Land Pressure Receivers subject to Steam and Air Pressure (but excluding Steam Boilers) **Specialist Contractor**

**Brief Scope of Category:**

The scope of work in this category covers the carrying out of examination and test to ensure that the pressure vessels are in safe working order and comply with the Boiler and Pressure Vessels Ordinance, Cap. 56.

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable.	Not Applicable.	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and the surveys should preferably be of various types and classes as mentioned in the Boilers and Pressure Vessels (Forms) Order; and</p> <p>(2) The applicant shall provide documentary evidence to substantiate experience, such as copies of the Certificate of Fitness of the inspected vessels signed by a Qualified Boiler Inspector or Qualified Air Receiver Inspector of the applicant, contract agreement, correspondence etc.; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference; and</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 5 surveys, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least 2 of the above 5 surveys shall be completed within the past 12 months or at final stage; and</p> <p>(6) The applicant shall be able to arrange joint site inspections for the government's examination of the quality of the submitted job reference within normal office hours; and</p> <p>(7) The scope of work for each of these 5 surveys shall cover the nature of works as described in the "Brief Scope of Category".</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p><b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of inspectors with adequate and relevant academic qualification and working experience.</p> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>✧ Qualified Boiler Inspector (QBI) appointed as Boiler Inspector under the Boilers and Pressure Vessels Ordinance Cap. 56 and holding the Certificate of Competency in respect of all classes and types of boilers mentioned in the Boilers and Pressure Vessel (Forms) Order, with appointment not having been suspended - 1 no. (minimum); OR</li> <li>✧ Qualified Air Receiver Inspector (QARI) appointed as Air Receiver Inspector under the Boilers and Pressure Vessels Ordinance Cap. 56 and holding the Certificate of Competency in respect of all classes and types of air receiver mentioned in the Boilers and Pressure Vessels (Forms) Order, with appointment not having been suspended – 1 no. (minimum).</li> </ul> <p>Documentary proof of the registration issued by the Boiler and Pressure Vessel Authority should be provided.</p> <p><b>3. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate nos. of calibrated testing instruments and equipment/tools for carrying out examination and test; valid calibration certificates for testing instruments/equipment shall be available. Refer to <a href="#">Annex 29</a> for list of typical equipment, tools and testing instruments required.</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p><b>4. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 20 m<sup>2</sup> and the minimum workshop + storage area shall be 20 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>

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Managing Department: Architectural Services Department

<b>Works Category:</b>	<u>Survey of Government Land Steam Boilers</u>	<b>Specialist Contractor</b>
<p><b>Brief Scope of Category:</b></p> <p>The scope of work in this category covers the carrying out of examination and test to ensure that steam boilers are in safe working order and comply with the Boiler and Pressure Vessels Ordinance.</p>		

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable.	Not Applicable.	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and the surveys should preferably be of various types and classes as mentioned in the Boilers and Pressure Vessels (Forms) Order; and</p> <p>(2) The applicant shall provide documentary evidence to substantiate experience, such as copies of the Certificate of Fitness of the inspected vessels signed by a Qualified Boiler Inspector of the applicant, contract agreement, correspondence etc.; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 5 surveys, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least 2 of the above 5 surveys shall be completed within the past 12 months or at final stage; and</p> <p>(6) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours.</p> <p>(7) The scope of work for each of these 5 surveys shall cover the nature of works as described in the "Brief Scope of Category".</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p><b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of inspectors with adequate and relevant academic qualification and working experience.</p> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Qualified Boiler Inspector (QBI) appointed as Boiler Inspector under the Boilers and Pressure Vessels Ordinance Cap. 56 and holding the Certificate of Competency in respect of all classes and types of boilers mentioned in the Boilers and Pressure Vessel (Forms) Order, with appointment not having been suspended – 1 no. (minimum)</li> </ul> <p>Documentary proof of the registration issued by the Boiler and Pressure Vessel Authority should be provided.</p> <p><b>3. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate nos. of calibrated testing instruments and equipment/tools for carrying out examination and test; valid calibration certificates for testing instruments/equipment shall be available. Refer <b>Annex 30</b> for list of typical equipment, tools and testing instruments required.</p> <p><b>4. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 20 m<sup>2</sup> and the minimum workshop</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		+ storage area shall be 20 m <sup>2</sup> . Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.

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Managing Department: Architectural Services Department

Works Category: <u>Survey of Lifting Appliances and Lifting Gear</u>	Specialist Contractor
<p><b>Brief Scope of Category:</b></p> <p>The scope of work in this category covers the carrying out of examination and test to ensure that lifting appliances and lifting gears are in safe working order and comply with the Factories and Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations.</p>	

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable.	Not Applicable.	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and the surveys must be relevant and should preferably for various types of lifting appliances and lifting gear. Both thorough examination and proof load test should be included in the job records. Also at least one survey should be for crane with automatic safe load indicator.</p> <p>(2) The applicant shall provide documentary evidence to substantiate experience, such as copies of the certificate of test and thorough examination issued after the survey in the approved format under the Regulations signed by the Qualified Competent Examiner should be produced for inspection; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall have at least 5 surveys, which were completed within past 3 years for site inspection; and</p> <p>(5) At least 2 of the above 5 surveys shall be completed within the past 12 months or at final stage; and</p> <p>(6) The applicant shall be able to arrange joint site inspections for the government's examination of the quality of the submitted job reference within normal office hours; and</p> <p>(7) The scope of work for each of these 5 surveys shall cover the nature of works as described in the "Brief Scope of Category".</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p><b>2. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of inspectors with adequate and relevant academic qualification and working experience.</p> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Qualified Competent Examiner (QCE) for lifting appliances and lifting gear in accordance with the Factory and Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations Cap 59J (hereinafter referred to as the Regulations). The Competent Examiner should be a Registered Professional Engineer registered under the Engineers Registration Ordinance within the Mechanical or Marine discipline – 1 no. (minimum).</li> </ul> <p>Documentary proof of the registration issued by the Engineers Registration Board should be provided.</p> <p><b>3. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate nos. of calibrated testing instruments and equipment/tools for carrying out examination and test; valid calibration certificates for testing instruments/equipment shall be available. Refer <b>Annex 31</b> for list of typical equipment, tools and testing instruments required.</p> <p><b>4. Office/Workshop Facilities</b></p> <p>Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 20 m<sup>2</sup> and the minimum workshop + storage area shall be 20 m<sup>2</sup>. Documentary evidence</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		(e.g. purchase/lease agreement) to prove right of use shall be produced.

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Managing Department: Architectural Services Department

**Works Category:** Swimming Pool Water Treatment Installation **Specialist Contractor**

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of equipment, piping and fittings for water treatment and distribution of swimming pool such as water circulation, filtration, pH control, chemical treatment, sterilization, disinfection, leisure pool, hydrotherapy pool, pool lighting installation, etc.

**Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)**

Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$34 million

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(4) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds \$5M; and</p> <p>(b) The contract shall cover major scope of works as described in the "Brief Scope of Category"; and</p> <p>(c) If the contract is a term contract, all of the above requirements 4 (a) to 4 (b) shall be fulfilled in one works order.</p> <p>(5) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the</p>	<p>Not Applicable.</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$10M; and</li> <li>(b) The contract shall cover major scope of works as described in the "Brief Scope of Category".</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the swimming pool water treatment installation contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(e) Notwithstanding the above, the Managing Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the</li> </ul>	<p>concerned project, all shall not be the swimming pool water treatment installation contractor for the project work.</p>	

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A. Entry on Probation	B. Confirmation	C. Direct Entry						
<p>concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Qualified Engineer</u></p> <p>Employ at least 1 no. qualified engineer (Mechanical and Building Services discipline) with adequate and relevant professional and project management experience.</p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr> <td>Technician</td> <td>2 nos.</td> </tr> <tr> <td>Site supervisor</td> <td>2 nos.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of craftsman in the following trades</p>	Technician	2 nos.	Site supervisor	2 nos.	Draftsman	1 no.		
Technician	2 nos.							
Site supervisor	2 nos.							
Draftsman	1 no.							

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>(A) Plumber/BS Mechanic  Minimum score required 20 marks  Qualified Plumber/BS Mechanic 20 marks  Intermediate Plumber/BS Mechanic 15 marks  Ordinary Plumber/BS Mechanic 8 marks</p> <p>(B) Electrician  Minimum score required 20 marks  Qualified Electrician 20 marks  Intermediate Electrician 15 marks  Ordinary Electrician 8 marks</p> <p><u>Statutory Registration</u>  The applicant shall have staff meeting the following statutory registration requirements:</p> <ul style="list-style-type: none"> <li>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade B2 – 1 no. (minimum)</li> <li>◇ Licensed Plumber (LP) registered under Waterworks Ordinance, Cap. 102 - 1 no. (minimum)</li> </ul> <p>The LP or REW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><u>Qualified Welder</u>  Employ adequate nos. of Qualified Welder (QW)</p> <p>QW 1 no.</p> <p>The QW can be the Qualified Engineer, Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal.  Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation,</p>		

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer to Annex 32 for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 30 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p>		

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Managing Department : Highways Department

Works Category : Transparent Panels for Noise Barriers on Highways Supplier  
[formerly named as “Prefabricated Architectural Walls and Finishes (Screens, Sound Barriers and Retaining Walls)”]

**Brief Scope of Category :**

The scope of work in this category covers the supply of transparent panels for noise barriers on highways. The materials shall be of suitable mechanical and acoustic properties, and proven performance and durability. They shall functionally and aesthetically fit with the structural system of the noise barriers, and shall also perform safely in fire and traffic accidents and satisfactorily in glare reduction.

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**Direct Entry****1. Job Experience**

The transparent panels shall have successfully performed in at least 1 project for noise barriers on highways or similar works in Hong Kong in the past 3 years, each with a value of \$0.5M or more. References on these projects from consulting engineer (architects or clients if there is no consulting engineer) must be submitted, which may be verified by site visits.

**2. Registration with relevant authorities in Hong Kong (such as ISO9000 Certification, Building Authority etc.)**

The transparent panels shall be manufactured under a quality management system certified by an internationally recognized certifying body.

**3. Top Management**\*(See Remarks on the end page of this Appendix)

Top management shall possess relevant technical and managerial experience in the design and construction of noise barriers on highways.

**4. Technical Staff**

Professional and technical staff experienced in the design and construction of noise barriers on highways are required.

**5. Plant and Equipment**\*\* (See Remarks on the end page of this Appendix)

Not Applicable

**6. Office/Workshop Facilities**

Local office in Hong Kong is required.

**7. Training Facilities**

Not Applicable

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**Direct Entry**

**8. Others**

Satisfactory technical information, including testing reports from independent organizations, shall be submitted, to demonstrate that the transparent panels and their any accessories shall meet the principles and considerations given in the Bridges & Structures Division Practice Note No. BSTR/PN/003 – Noise Barriers with Transparent Panels, issued by the Highways Department or equivalent national standards.

The materials to be approved shall possess acceptable application history of at least 5 years in weathering conditions similar to Hong Kong climate, and be subject to a 10-year performance warranty.

Note : The Bridges & Structures Division Practice Note No. BSTR/PN/003 referred to in item 8 above is available on Highways Department’s website at <http://www.hyd.gov.hk>.

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Managing Department : Architectural Services Department

Works Category : Turn-key Interior Design & Fitting-out Works Specialist Contractor

Group I : Eligible to be awarded one contract as a Trade Test.

Group II : Eligible to be awarded more than one contract at any one time.

**Brief Scope of Category :**

The scope of work in this category covers the design and fitting-out works for Government department/bureaux.

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Group I A. Direct Entry	Group II A. Direct Entry
<p><b>1. Job Experience</b> At least 3 major local projects in design and fitting-out works of value above \$5M completed in the past 5 years and one of which shall exceed \$15M.</p>	<a href="#">Not Applicable</a>
<p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b> The applicant must be an approved contractor under Buildings category in the List of Approved Contractors for Public Works.</p>	
<p><b>3. Top Management</b> <small>*(See Remarks on the end page of this Appendix)</small> <a href="#">Not Applicable</a></p>	
<p><b>4. Technical Staff</b> At least one qualified Architectural and Interior Designer (AP - List of Architects); one qualified Structural Engineer (RSE); one qualified Building Services Engineer as BS Coordinator (CIBSE or HKIE (BS)); one qualified contract manager with at least ten years' management experience in construction industry (Ordinary Certificate in Building Studies); four foremen each with at least five years' experience in construction industry; six carpenters/skill workers; three qualified quantity surveying staff (Ordinary Certificate in Building Studies); four accounting staff</p>	
<p><b>5. Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small> <a href="#">Not Applicable</a></p>	
<p><b>6. Office/Workshop Facilities</b> A design office and workshop suitable for the nature of work. Local office and local workshop in Hong Kong are required.</p>	
<p><b>7. Training Facilities</b> <a href="#">Not Applicable</a></p>	
<p><b>8. Others</b> - supporting facilities from suppliers/ manufacturers/agents - regular sub-contractors</p>	

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Group I	Group II
	<p align="center"><b>B. Entry by Promotion</b></p> <ol style="list-style-type: none"> <li><b>Job Experience</b> Satisfactory completion of the Trade Test (satisfactory completion of at least one ArchSD project under this Works Category within the past 5 years and of value above \$10M) and have good result in the full Performance Assessment</li> <li><b>Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b> The applicant must be an approved contractor under Buildings category in the List of Approved Contractors for Public Works.</li> <li><b>Top Management</b> <small>*(See Remarks on the end page of this Appendix)</small> <u>Not Applicable</u></li> <li><b>Technical Staff</b> At least one qualified Architectural and Interior Designer (AP - List of Architects); one qualified Structural Engineer (RSE); one qualified Building Services Engineer as BS Coordinator (CIBSE or HKIE (BS)); one qualified contract manager with at least ten years' management experience in construction industry (Ordinary Certificate in Building Studies); four foremen each with at least five years' experience in construction industry; six carpenters/skill workers; three qualified quantity surveying staff (Ordinary Certificate in Building Studies); four accounting staff</li> <li><b>Plant and Equipment</b> <small>** (See Remarks on the end page of this Appendix)</small> <u>Not Applicable</u></li> <li><b>Office/Workshop Facilities</b> A design office and workshop suitable for the nature of work</li> <li><b>Training Facilities</b> <u>Not Applicable</u></li> <li><b>Others</b> - supporting facilities from suppliers/ manufacturers/agents - regular sub-contractors</li> </ol>

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**Managing Department:** Architectural Services Department

**Works Category:** Uninterruptible Power Supply Installation Specialist Contractor

**Brief Scope of Category:**

The scope of work in this category covers the supply, installation and maintenance of static-type, uninterruptible power supply (UPS) systems together with the associated batteries, control and monitoring accessories, which are mainly deployed to support computer operations.

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A. Entry on Probation	B. Confirmation	C. Direct Entry
Not Applicable.	Not Applicable.	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) All statutory forms such as the Work Completion (Part of an Installation) Certificate (i.e. Form WR1 (A)) shall be issued under the name of the applicant; and</p> <p>(8) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p>

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>(9) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <ul style="list-style-type: none"> <li>(a) Contract value of the work related to the category under application for inclusion exceeds \$0.5M; and</li> <li>(b) The UPS rating in at least one of the above 2 contracts should be of 80kVA or above; and</li> <li>(c) The contract shall cover the nature of works as described in the "Brief Scope of Category".</li> </ul> <p>(10) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <ul style="list-style-type: none"> <li>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</li> <li>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</li> <li>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the uninterruptible power supply system contractor for the project work; and</li> <li>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</li> <li>(e) Notwithstanding the above, the Managing</li> </ul>

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A. Entry on Probation	B. Confirmation	C. Direct Entry												
		<p>Department may seek references on the applicant's technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u> The applicant shall be a Registered Electrical Contractor registered under Electricity Ordinance, Cap. 406 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section "Technical Staff".</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table border="0"> <tr><td>Technician</td><td>1 no.</td></tr> <tr><td>Site supervisor</td><td>1 no.</td></tr> <tr><td>Draftsman</td><td>1 no.</td></tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of Electronics Craftsman</p> <table border="0"> <tr><td>Minimum score required</td><td>40 marks</td></tr> <tr><td>Qualified Electronics Craftsman</td><td>20 marks</td></tr> <tr><td>Ordinary Electronics Craftsman</td><td>10 marks</td></tr> </table> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	40 marks	Qualified Electronics Craftsman	20 marks	Ordinary Electronics Craftsman	10 marks
Technician	1 no.													
Site supervisor	1 no.													
Draftsman	1 no.													
Minimum score required	40 marks													
Qualified Electronics Craftsman	20 marks													
Ordinary Electronics Craftsman	10 marks													

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A. Entry on Probation	B. Confirmation	C. Direct Entry
		<p>◇ Registered Electrical Worker (REW) registered under Electricity Ordinance, Cap. 406. Grade C2 – 1 no. (minimum)</p> <p>The REW can be the Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <b>Annex 33</b> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 40 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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**Managing Department:** Architectural Services Department

<b>Works Category:</b>	<u>Video Electronics Installation</u>	<b>Specialist Contractor</b>
<b>Brief Scope of Category:</b>		
The scope of work in this category covers the supply, installation and maintenance of video cassette recorder, video camera, monitor etc. commonly used for closed circuit TV system, video recording/display system and visual system at different venues.		
<b>Definition of Probationary Status<sup>#</sup> (Para. 3.5.3 is not applicable for this category)</b>		
Eligible for the award of a maximum of two contracts/subcontracts provided that the total value of works in this category does not exceed \$3.4 million		

<sup>#</sup> [See Remarks \(1\) on the end page of this Appendix.](#)

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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage.</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p> <p>(a) Contract value of the work related to the</p>	<p>(1) The applicant has satisfactorily completed, within the past 12 months, at least one public works contract let by a Works Department; and</p> <p>(2) This contract shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(3) The scope of work for this contract must fulfill all the following requirements:</p> <p>(a) Contract value of the work related to the category under application for confirmation exceeds \$0.2M; and</p> <p>(b) The contract shall cover the nature of works as described in the "Brief Scope of Category"; and</p> <p>(c) If the contract is a term contract, all of the above requirements 3 (a) and 3 (b) shall be fulfilled in one works order.</p> <p>(4) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the "Brief Scope of Category" covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the video electronics installation contractor for the project work.</p>	<p><b>1. Job Experience</b></p> <p><u>General</u></p> <p>(1) The applicant shall have adequate experience in the type and size of work of the category, with satisfactory quality of work compatible with Government standard; and</p> <p>(2) The applicant shall have adequate experience in contract management of work of the category, solely and fully, including coordination with building contractor and other building services / electrical and mechanical contractors; and</p> <p>(3) For job experience outside the HKSAR, evidences as stipulated under para. 2.4.5 of the CMH must also be produced to the satisfaction of the Secretary for the Environment, Transport and Works; otherwise, it will not be considered as a valid job reference.</p> <p><u>Job Reference for Inspection</u> (In addition to the above, every job submitted by the applicant shall fulfill all requirements set out below; otherwise, it will not be considered as a valid job reference)</p> <p>(4) The applicant shall submit at least 2 contracts, which were completed within the past 3 years for site inspection; and</p> <p>(5) At least one of the above 2 contracts shall be completed within the past 12 months or at final stage; and</p> <p>(6) These 2 contracts shall be direct contract, which was signed between the applicant and the employer of the concerned project; and</p> <p>(7) The applicant shall be able to arrange joint site inspections for the government's examination of the quality and workmanship of the submitted job reference within normal office hours; and</p> <p>(8) The scope of work for each of these 2 contracts must fulfill all of the following requirements:</p>

A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>category under application for inclusion exceeds \$0.2M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the video electronics installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant parties of the concerned project.</p>		<p>(a) Contract value of the work related to the category under application for inclusion exceeds \$0.5M; and</p> <p>(b) The contract shall cover the nature of works as described in the “Brief Scope of Category”.</p> <p>(9) Subcontract will not be considered as valid job reference unless it can satisfy all of the following requirements, in addition to all the above stated requirements:</p> <p>(a) The subcontract shall include all the relevant work as described under the “Brief Scope of Category” covered in the main contract; and</p> <p>(b) The applicant shall have undertaken the full scope of work covered in the subcontract, solely and fully, including contract management; and</p> <p>(c) The party by which the applicant is awarded with the subcontract, and the upstream contracting parties up to and including the main contractor, which is the company awarded with the direct contract by the employer of the concerned project, all shall not be the video electronics installation contractor for the project work; and</p> <p>(d) The applicant must present documentary evidence to prove the above requirements are met and such evidence must be substantiated by all the relevant upstream contracting parties as mentioned at (c) above including letters from them, which must be signed by their authorized signatories to confirm that the applicant has met the above requirements in the subcontract; and</p> <p>(e) Notwithstanding the above, the Managing Department may seek references on the applicant’s technical and managerial capabilities from the employer, the relevant parties of the concerned project and other sources or confirmation on the authenticity of the proof provided by the applicant from the relevant</p>

A. Entry on Probation	B. Confirmation	C. Direct Entry																								
<p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Licensed Security Company engaged in Type III Security Work under Security and Guarding Services Ordinance, Cap. 460 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="107 798 593 869"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of Electronics Craftsman</p> <table data-bbox="107 965 638 1037"> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Electronics Craftsman</td> <td>20 marks</td> </tr> <tr> <td>Ordinary Electronics Craftsman</td> <td>10 marks</td> </tr> </table> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <p>◇ Security Personnel (SP) holding Security Personnel Permit (Cat. D) issued under Security and Guarding Services Ordinance, Cap 460 – 1 no. (minimum)</p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	40 marks	Qualified Electronics Craftsman	20 marks	Ordinary Electronics Craftsman	10 marks		<p>parties of the concerned project.</p> <p><b>2. Registration with relevant authorities in Hong Kong (such as Quality Management System Certification, Building Authority etc.)</b></p> <p><u>Statutory Registration</u></p> <p>The applicant shall be a Licensed Security Company engaged in Type III Security Work under Security and Guarding Services Ordinance, Cap. 460 and have full time technical staff (meeting the relevant statutory registration requirement) of number not less than that described in the Section “Technical Staff”.</p> <p><b>3. Technical Staff (See Annex 1 for definition of Staff Qualification)</b></p> <p><u>Technical Support Staff</u></p> <p>Employ adequate nos. of technicians, site supervisors and draftsmen with adequate and relevant academic qualification and working experience.</p> <table data-bbox="1292 798 1780 869"> <tr> <td>Technician</td> <td>1 no.</td> </tr> <tr> <td>Site supervisor</td> <td>1 no.</td> </tr> <tr> <td>Draftsman</td> <td>1 no.</td> </tr> </table> <p><u>Craftsman</u></p> <p>Employ adequate nos. of Electronics Craftsman</p> <table data-bbox="1292 965 1825 1037"> <tr> <td>Minimum score required</td> <td>40 marks</td> </tr> <tr> <td>Qualified Electronics Craftsman</td> <td>20 marks</td> </tr> <tr> <td>Ordinary Electronics Craftsman</td> <td>10 marks</td> </tr> </table> <p><u>Statutory Registration</u></p> <p>The applicant shall have staff meeting the following statutory registration requirements:</p> <p>◇ Security Personnel (SP) holding Security Personnel Permit (Cat. D) issued under Security and Guarding Services Ordinance, Cap 460 – 1 no. (minimum)</p>	Technician	1 no.	Site supervisor	1 no.	Draftsman	1 no.	Minimum score required	40 marks	Qualified Electronics Craftsman	20 marks	Ordinary Electronics Craftsman	10 marks
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A. Entry on Probation	B. Confirmation	C. Direct Entry
<p>The SP can be the Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <a href="#">to Annex 34</a> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>		<p>The SP can be the Technical Support Staff or Craftsman.</p> <p><b>4. Plant and Equipment</b> <small>**<a href="#">(See Remarks on the end page of this Appendix)</a></small></p> <p>Adequate modern drafting and computing facilities; minimum 1 no. CAD terminal. Adequate nos. of calibrated testing instruments and equipment/tools for carrying out installation, operation, maintenance and testing/commissioning services; valid calibration certificates for testing instruments shall be available. Refer <a href="#">Annex 34</a> for list of typical equipment/tools and testing instruments required.</p> <p><b>5. Office/Workshop Facilities</b></p> <p>Local office/workshop in Hong Kong SAR is required. Reasonably sized, suitably furnished office and workshop/storage areas. In general, the minimum office area shall be 40 m<sup>2</sup> and the minimum workshop + storage area shall be 25 m<sup>2</sup>. Documentary evidence (e.g. purchase/lease agreement) to prove right of use shall be produced.</p> <p><b>6. Others</b></p> <p><u>Authorized Agency</u> Preferably be an authorized agent in HKSAR for essential equipment. Documentary evidence such as authorized agency agreements shall be available.</p> <p><u>Support from Principal</u> Technical support from principal(s) of relevant agency is desirable. Applicant to demonstrate scope and extent (such as design, backup on installation / maintenance etc.) of support.</p>

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Remarks :

\* Top management shall be the President, Chairman, Director, Managing Director, Executive Director or General Manager etc.

\*\* The plant and equipment requirements are subject to modification as technology advances and as new plant emerges. Furthermore, the type of materials and method of application that the contractors select will dictate the plant required.

(1) The outstanding value instead of the total value of works is to be used for checking compliance with the tender limits for probationary contractors. The outstanding value of works in an existing contract shall be the difference between the original contract sum and the aggregate of all payments certified under the contract up to and including the date set for the close of tender or, if this has been extended, the extended date for the contract being procured. The outstanding value shall be taken as zero if the original contract sum is less than the aggregate of all payments certified.

(2) The new tender/contract limits effective as from 17 July 2009 will not affect the group limits and the minimum contract value referred to in the contract experience requirement set out in this Appendix for assessing applications for admission, confirmation or promotion of contractors in the relevant categories, groups and status of the Specialist List until further notice.

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**ANNEX 1 Staff Qualification for 26 Categories**

Works Categories:

- Air-conditioning Installation
- Audio Electronics Installation
- Broadcast Reception Installation
- Burglar Alarm and Security Installation
- Catering Equipment Installation
- Diesel Generator Installation
- Electrical and Mechanical Installation for Sewage Treatment & Screening Plant
- Electrical Installation
- Electronic Timing and Display Installation
- Fire Service Installation
- Fountain Installation
- Industrial Type Electrical Installation
- Lift, Escalator and Passenger Conveyor Installation
- Liquefied Petroleum Gas Installation
- Low Voltage Cubicle Switchboard Installation
- Mechanical Handling and Lifting Installation
- Mechanical Plant and Equipment Installation
- Motor Vehicle Body-building and Painting
- [Plumbing Installation](#)
- Radio Electronics Installation
- Steam and Compressed Air Installation
- Survey of Government Land Pressure Receivers subject to Steam and Air Pressure (but excluding Steam Boilers)
- Survey of Government Land Steam Boilers
- Survey of Lifting Appliances and Lifting Gear
- Swimming Pool Water Treatment Installation
- Uninterruptible Power Supply Installation
- Video Electronics Installation



## ANNEX 35 Minimum Personnel and Equipment Requirements for Landscaping Category, Class I : General Landscape Work

### Minimum Requirements for Technical Staff

Position <sup>(a), (b)</sup>	Academic / Professional Qualifications	Experience <sup>(c)</sup>	No.	
			Group I	Group II
horticulturalist	Obtained a university degree in horticulture or related discipline <sup>(e)</sup>	Three years working experience in horticulture	1 <sup>(d)</sup>	1 <sup>(d)</sup>
	OR			
	Satisfactorily completed <sup>(f)</sup> a recognized diploma programme in horticulture or related field <sup>(g)</sup> equivalent to the standards of Level 3 or above in the Hong Kong Qualification Framework	Four years working experience in horticulture		
	OR			
	Obtained a qualification or certification from a professional institute or organization of horticulture <sup>(h)</sup> with standards equivalent to those of the Certified Horticulturist from the American Society for Horticultural Science or above	Five years working experience in horticulture		

**Minimum Requirements for Technical Staff (Cont'd)**

Position <sup>(a), (b)</sup>	Academic / Professional Qualifications	Experience <sup>(c)</sup>	No.	
			Group I	Group II
tree specialist	Obtained a university degree in arboriculture or related discipline <sup>(i)</sup>	Three years working experience in arboriculture	1 <sup>(d)</sup>	1 <sup>(d)</sup>
	OR			
	Satisfactorily completed <sup>(f)</sup> a recognized diploma programme in arboriculture or related field <sup>(j)</sup> equivalent to the standards of Level 3 or above in the Hong Kong Qualification Framework	Four years working experience in arboriculture		
	OR			
	Obtained a qualification or certification from a professional institute or organization of arboriculture <sup>(h)</sup> with standards equivalent to those of the Certified Arborist from the International Society of Arboriculture or above	Five years working experience in arboriculture		

**Minimum Requirements for Technical Staff (Cont'd)**

Position <sup>(a), (b)</sup>	Academic / Professional Qualifications	Experience <sup>(c)</sup>	No.	
			Group I	Group II
skilled worker	Satisfactorily completed <sup>(f)</sup> a total of not less than 60 hours of training courses in the past five years in the arboricultural and horticultural fields offered by the relevant organizations with standards equivalent to those of the Construction Industry Council Training Academy (CICTA) and the Vocational Training Council (including the courses offered under the Horticulture Skills Upgrading Scheme) or above, in which the Supervision of Tree Works Course offered by CICTA and course(s) on training of pruning techniques and use of basic arboricultural and horticultural tools and equipment such as chainsaws should be included.	Three years site working experience in arboriculture and horticulture	2	4

**Minimum Requirements for Technical Staff (Cont'd)**

Notes :

- (a) All individuals must be full time employees of the applicant and must be resident Hong Kong Identity Card Holders or Work Visa Holders, and the practice must constitute their principal source of employment. Documentary evidence such as self-declaration letter specifying full-time employment with the company, bank payroll statement, Mandatory Provident Fund contribution record, Employer's Return of Remuneration and Pensions to Inland Revenue Department, etc. shall be produced.
- (b) All individuals may fill only one of the positions at any one time, unless stated otherwise.
- (c) The experience of all individuals must be full time experience gained in Hong Kong.
- (d) The horticulturalist and the tree specialist can be the same person for Group I contractors but cannot be the same person for Group II contractors.
- (e) Related disciplines of horticulture include agriculture, arboriculture, botany, landscape architecture, landscape management, landscape science, plant science, or equivalent.
- (f) 'Satisfactorily completed' means achievement of satisfactory level of competency assessment through examination, assignment and/or class performance.
- (g) Programme in related field of horticulture shall comprise core course module in subjects including botany, soil science and fertility, diagnosis, treatment and control of plant pests and diseases, nursery management, and landscape management, or equivalent.
- (h) The qualification or certification shall be obtained through satisfactory passing of examination or assessment process within the institute or organization.
- (i) Related disciplines of arboriculture include botany, forestry, horticulture, landscape architecture, landscape management, landscape science, plant science, or equivalent.
- (j) Programme in related field of arboriculture shall comprise core course module in subjects including tree identification and biology, tree planting, protection and establishment, pruning, plant health care, diagnosis and disorder, tree risk assessment and management, and tree works safety, or equivalent.

**Minimum Plant and Equipment Requirements for Group I and Group II Contractors**

<b>Plant and Equipment</b>	<b>Remarks</b>
Advanced tree diagnostic equipment such as resistograph and tomograph, and auxiliary plant and tools for ready set-up, testing, fine-tuning and maintenance of the equipment.	Documentary proof of ownership of the equipment or ability to source the equipment from third party when required, should be produced.
Basic tools and equipment that are necessary to enable the contractor to perform effectively the works as defined in the Brief Scope of Category/Class, such as hoe, saw, shears, spade, mattock, shoulder sprayers, power chainsaw, tree climbing saddles, braided climbing ropes, carabiner, bow saw, pole saw, long-arm pruner	Documentary proof of ownership of the tools and equipment should be produced.
Personal protective equipment that are necessary to enable the contractor to perform safely the works as defined in the Brief Scope of Category/Class, such as safety steel toe cap boots, chainsaw gloves, chainsaw pants, safety helmet with face guard, safety glasses or goggles and ear defenders	Documentary proof of ownership of the equipment should be produced.

## ANNEX 36 List of Tools / Equipment and Testing Instruments for the Plumbing Installation Category

Item of Assessment	Minimum Requirement		Remark
	Group I	Group II	
Flow meters & pressure gauges	1	1	Calibration is permanent, components to be replaced if damaged
Hydraulic pump with pressure gauge	1	2	
Insulation tester	1	2	
Multi-tester (AVO)	1	2	
Clamp-on ammeter	1	2	
Conduit bender	1	2	
Conduit cutter	1	2	
Welding machine	1	2	
Threading machine	1	2	
Bending machine	1	2	
Drilling machine	1	2	
Proof of regular calibration (for instrument only), e.g. calibration certificates issued by the Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory or equivalent institutions	Required	Required	At least yearly and as requested when the instrument is in doubt

Note: All equipment should be verified that they are all at sight or with other form of proof of ownership.