1. General Technical Requirements
2. Compliance
3. Electrical & Mechanical Works
4. Standard and Technician Requirements
5. Site Management
6. Ah House Rule
7. Risk Assessment
8. Contact/Project Schedule
Description

1. General Technical Requirements

<table>
<thead>
<tr>
<th></th>
<th>Car Parking Space</th>
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<tbody>
<tr>
<td>1.1</td>
<td>Provision of 36 to 40 parking lots with reverse parking mode over an approximately 98 m² open area.</td>
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<tr>
<td></td>
<td>Boundary concrete kerb with small gaps every 3 metres interval surround the car park area.</td>
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</tbody>
</table>

| 1.2 | Paths and Traffic Flow                                                           |
|     | **Traffic flow** - Single entrance and exit point from the Mortuary and to be continuity with the existing street. |
|     | **Channel Culvert** – Pre-cast RC channel culvert complete with parapet wall, ledges and bakau piles foundation. |

| 1.3 | Surface Elements                                                                 |
|     | **Reclaimed asphalt pavement (RAP)** – Minimum 200mm thick hardcore sub-grade and 75mm thick surfacing by reclaimed asphalt pavement. Adequate compaction in layers in accordance to the require working load by heavy construction equipment and machinery. Provide a surface uniform in appearance and free from depressions in which water can lie. |
|     | **Surface run off** – Direct discharge into existing channel drain.                |
|     | **Existing Inspection Chamber (IC)** – To level the ICs with the new car park surface; supply and install heavy-duty IC’s cover. |
|     | **Road/Car park marking** – Provision of basic road and car park lot marking by heavy duty road paint with glass bead composite. |
|     | **Turfing** – Filled with minimum 200mm thick top soil and turf with NPark approved cow grass. |

|   | Sub Total | $ |

2. Compliance

| 2.1 | The Contractor shall ensure the construction of the temporary car park lot complied to the local authority as follow: |
|     | Environmental and safety management control at site as stipulated under WHS (Construction) Act and Environmental Protection Management Act. |

| 2.2 | The Contractor shall appoint an independent registered Environmental |
Control and Safety officer to ensure that the construction accordance to the NEA and MOM’s rules and regulations.

2.3 Provision of environmental control measures within the construction site.

Sub Total

3. **Electrical and Mechanical Works**

3.1 **Car Park Lighting System**

- To supply and install new; height 4 metre car park pole lights. The new light shall comply to BS 5489, B BS EN 13201, CIE and all applicable Codes, Regulations, Standards and relevant authorities.

- The lighting level shall be at least 20 lux.

- The lighting pole sitting, foundation design & calculation shall be endorsement by a QP (Civil). Testing and commissioning

3.2 **Electrical Work**

- To supply and install of Type C, double pole MCB control, single-phase circuit with 30mA RCCB and box.

- The electrical supply for the car park lighting shall tap from Block 19A level 1 electrical sub-board, shut down required.

- To supply and install of new underground Armoured cable, class B UPVC pipe laid minimum 900m from road finish level.

- To supply and install programmable timer for the car park lighting control. Testing and commissioning

3.3 **Light Sample Catalog**

- To submit the specification and catalog of the proposed pole lights.

Sub Total

4. **Standards and Technical Requirement**

4.1 **Electrical System**

- a. Electrical works shall comply with the latest local Code CP5.

- b. Electrical works shall be carried out by competent personnel such as Licensed Electrical Worker (LEW).
c. The contractor shall submit license number of his LEW.
d. All electrical works including equipment, cabling, trunking, conduits, etc shall be clearly labelled.
e. All new electrical power points shall be tested and endorsed by LEW.
f. New electrical distribution board single line and as-built drawings shall be provided with LEW endorsement.

Sub Total

5. Site Management

5.1 Site Hoarding

a. A high standard of hoarding system is to be provided during the renovation. Protective materials shall be use to protect the floor, wall and equipment.
b. The hoarding shall be done up to provide good access along the corridors, which should be clean, free of debris, smell and insulated from working noise.
c. Hoarding Material shall be of durable and cleanable materials with Hospital approved signage.
d. The Hospital Infection Control Department & Facilities Management will conduct a joint inspection to the site hoarding. The vendor shall ensure that the hoarding standard is approved by both department. The vendor will need to re-construct the hoarding if it does not meet inspection standards. Any re-construction of hoardings shall not affect nor delay the project schedule, which shall be fully borne by the contractor.

5.2 Site Foremen and Supervisor

The contractor shall keep on site at all times an experienced and efficient foreman or supervisor who is empowered to receive and carry out instructions from the Hospital. He shall be at all times be contactable.

5.3 Permit to Work

All project personnel shall report to the hospital’s Fault Reporting Centre (FRC) to register, collect, sign and submit the cover page of AH House Rule to the Security office of Alexandra Hospital. The contractor pass will be issued by the Security Dept. The contractor and his workers are advised to wear their pass at all times during the work in the Hospital.

5.4 Signage

All necessary signage should be provided at strategic locations to keep staff and his visitors informed of the works. The information signage shall include:

i. The nature of work.
# Scope of Works

## Temporary Car Park Space & Carriage Way at Alexandra Hospital

- ii. Project period including estimated completion date
- iii. Name of the Project Manager and hand phone number.
- iv. Name of the Hospital Representative and contact phone number.
- v. Safety and precautions to be noted.

### 5.5 Housekeeping

- a. The contractor shall provide dust mat at the site entrances.
- b. There shall be no dumping of rubbish and construction materials.
- c. Dumping ground shall be approved by hospital. The contractor shall clear debris off site on daily basis.
- d. Full time cleaner shall be provided on site with floor cleaning provided every 15 to 20 minutes.

### 5.6 Inspection and Compliance to instruction

- a. The representative of the hospital shall have the right to inspect the progress of work, materials and equipment to be used.
- b. In the event of any dispute regarding the quality of workmanship, materials or equipment, the hospital representative shall reserve the right to order the removal or replace the items with approved materials; products or that complying to specification.
- c. All electrical, building materials and equipment shall be submitted for approval before the installation. Material and equipment without approval from the Hospital shall not be installed. Any non-compliance will require their immediate removal.

### 5.7 Guideline and Compliance to Regulation

All works shall comply to the following regulations:

- b. CP 10 1993, Installation and servicing of electrical fire alarm system.
- c. CP19, 2000, Installation and maintenance of emergency lights.
- d. CP 38, Artificial lighting in the building.
- e. PUB hand book on application of electrical supply
- f. Other codes and regulations which are not listed here, but necessary for the works.

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<tr>
<th>Sub Total</th>
<th>S$</th>
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### 6. AH House Rules

6.1 The Contractor shall be issued a copy of AH House Rule for project works. All Contractors are advised to read through and abide by the AH House Rule to prevent any dispute during the renovation works.
7. **Risk Assessment**

7.1 **Work Site Risk Assessment**

The Contractor shall require Risk Assessment to be conducted based on Ministry of Manpower (MOM) guidelines and format. The Risk Assessment report shall be signed by a competent personnel (eg: Safety Officer, Project Manager), and report require to submit before commence of works.

8. **Contact & Project Schedule**

8.1 **Contact/Project Schedule**

- Contact point for premise will be Mr Chan Keng Siong @ 63793671.
- Duration of the project shall not be longer than 3 weeks.
- Vendor shall submit the project schedule upon receiving the purchase order.

9. **Summary of Cost**

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<td>9.4 Standards and Technical Requirement</td>
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<td>9.5 Site Management</td>
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Total

GST 7%

Grand Total S$