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- 5.7.4 Each water closet (WC) cubicle shall have its own floor trap to drain water away. Each WC cubicle shall have its perimeter floor kerb. All WC cubicles are to be fitted with door hooks, a bib tap and a hose attached.
- 5.7.5 A minimum of three (3) male and two (2) female shower rooms with individual floor trap shall be provided on each floor, with hot and cold water supply and a “mixer” control tap, and doors with sufficient coat hooks with regular inspection and maintenance by licence electrician as accepted by the Engineer. Water flow in each shower, shall be a minimum of 0.5 litres per second. Each shower cubicle shall be equipped with sufficient soap/shampoo holders and clothes hangers. Each changing room shall also be equipped with automatic hand dryers, air fresheners, wall fans, bench and coat hooks. The Contractor shall also provide a kerb within the shower cubicle and water shall be made to fall and be drained off the cubicle.
- 5.7.6 The Contractor shall supply and install twenty (20) metal lockers (each two door double-tier with individual lockset and keys) at each of the Authority’s Offices, each 1800mm (H) and 400mm (W) x 600mm (D), all raised at least 100mm off the ground. The lockers shall be divided between the male and female toilets, as accepted by the Engineer, prior to construction of the facilities.
- 5.7.7 All WC and shower cubicles shall be of modular system.
- 5.8 **Car Park**
- 5.8.1 The Contractor shall provide a paved area, concrete or hot rolled asphalt with proper drainage outside the Authority’s Office, to be used as a car park.
- 5.8.2 The Contractor shall refer to **Table 5.8** for the number of car and motorcycle parking lots outside the Authority’s Office. The minimum dimensions of the car park lots and layout including access to the car park lots shall meet the requirements as specified in Chapter 2 of the Code of Practice for Vehicle Parking Provisions (2019) in development proposals.
- 5.8.3 All lots shall be marked and provided with concrete wheel stoppers. The wheel stoppers shall be maintained for the duration of the Contract.
- 5.8.4 The car park lots and space shall be illuminated and weather-proof switches and LED light fittings shall be provided with a minimum lighting level of 50 lux. The pillars of parking lots shall be marked with reflective tape to ensure visibility during parking at all times.
- 5.8.5 The Contractor shall note that the car park compound and driveways shall not be utilised for his safety briefing or toolbox talks.

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- 5.8.6 The covered parking spaces shall be linked to the entrance of the Authority's Office. The positions of the columns for the carpark shelter shall be arranged in a manner not to obstruct the opening of car doors.

5.9 **Green Building**

- 5.9.1 The Contractor shall design the Authority's Office to be a green building. The Contractor shall adopt various green building technologies and innovations (for example vertical green walls, recycling of surface drainage runoff for irrigation and solar panels etc.) to achieve better performance in areas such as energy efficiency, water efficiency, indoor environment quality and environmental management.
- 5.9.2 The Contractor shall consider appropriate building envelope and features such as greenery systems and sun shading devices and/or appropriate façade material for thermal comfort and to minimize solar heat gain in the internal environment.
- 5.9.3 The Contractor shall consider the use of energy efficient air-conditioning system, high efficiency lighting including motion sensors, etc., as part of the effort to reduce energy consumption. The Contractor shall incorporate the use of energy efficient light fittings with energy efficient lamps to reduce the lighting load. Where motion sensors are used, it shall be properly selected, positioned and tested so as to be able to detect the range of motion in the entire space to avoid switching off of lights when the space is occupied with little activity.
- 5.9.4 The Contractor shall as far as practicable incorporate the use of day lighting, natural ventilation and greenery in his design (e.g. landscaping, green roof, etc.).
- 5.9.5 The Contractor shall demonstrate to the Engineer that the design of the Authority's Offices is able to reduce the impact on the environment.

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5.10 **Digital Model**

5.10.1 A Project Information Centre (PIC) will be set up by the **CR208 Contractor**. The purpose of the PIC is to provide information on the project to the general public and interested parties, and as a base for conducting public relation efforts e.g., briefings by the Contractor.

5.10.2 The Contractor is required to provide to CR208 Contractor, including but not limited to:

- (a) Digital multimedia presentation including project information, digital 3D models of CR206 station, tunnels, soil strata, etc in appropriate format, size and template prescribed by CR208 contractor for display at PIC. The content of the interactive multimedia presentation is to be updated at least twice a year and as and when required by the Engineer;

The interactive multimedia presentation shall allow PIC visitors to visualise the future CR206 station and tunnels and provide an architectural sight-seeing experience – allow viewing of station & tunnel exterior and seeing through its walls to view the interior. The contents shall be interactive, engaging and attractive to visitors via means such as animations, soundtrack or voice-over as required.

- (b) Multimedia presentation in appropriate format, size and template prescribed by CR208 contractor, including but not limited to:
 - (i) Monthly progress photos and charts;
 - (ii) Project information;
 - (iii) Animation videos of the construction methodology and sequence of station and tunnel;
 - (iv) Aerial photos of site;
 - (v) Aerial drone videos of the site progress, updated every 3 months, showing the status of site;
 - (vi) PR newsletter/leaflets to be made available at all times as determined by the Engineer.

5.10.3 The Contractor shall coordinate with CR208 contractor to provide the information and content in appropriate format and template prescribed by CR208 contractor and shall update the information and material provided to the PIC regularly on a monthly basis.

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- 5.10.4 All digital multimedia presentation provided to CR208 contractor are to be approved by the Engineer.
- 5.10.5 Augmented Reality (AR)
- (a) The Contractor is to coordinate with CR208 contractor to provide AR overlay/initiatives to provide information on CR206 station and tunnels such as construction process and challenges using a combination of 3D info panels and animations, with soundtrack / voice-over as required;
 - (b) The AR overlay/initiatives should be user-friendly and compatible with commonly used smartphones/ tablets.
 - (c) The Contractor shall coordinate with CR208 contractor to provide all necessary information and update the AR overlay/initiatives as and when required.
- 5.10.6 The Contractor is also required to provide the following information/material in digital format to the PIC:
- a) Monthly progress photos and charts in appropriate form and size coordinated with the **CR208** Contractor;
 - b) PR newsletters/leaflets to be made available at all times as determined by the Engineer;
 - c) Aerial photos of site in appropriate form and size coordinated with the **CR208** Contractor;
 - d) Aerial drone videos, updated every 3 months, showing the status of CR208 site; and
 - e) Animation videos of the construction sequences of station.
- 5.10.7 The Contractor shall update the information and material provided to the PIC on a monthly basis.
- 5.10.8 The Contractor is required to liaise with the PIC Contractor's Public Relations Officer (PRO) on a monthly basis on PR activities and briefings to be held at the PIC.