

**PARTICULAR SPECIFICATION**

**APPENDIX A**

**INTERFACING CONTRACTS AND COORDINATION**

## **1 COORDINATION**

### **1.1 General Requirements**

1.1.1 The Contractor is responsible for detailed coordination of his construction activities with the System-wide Contractors (SWC), adjacent Civil Contractors, Authority's Consultants, LTA's In-house Designers, Provisional Sum Sub-contractors, Utility Agencies, Statutory Authorities, Public Transport Operators, and third parties such as private contractors and private owners whether or not specifically mentioned in the Contract (referred to throughout the Contract documents as the Interfacing Contractors/Parties).

1.1.2 Whilst coordinated layouts and drawings are submitted for agreement, it shall be the Contractor's sole responsibility to ensure that all works are included and coordinated. Omission of any works that result in abortive work as a result of insufficient coordination shall be the Contractor's responsibility.

1.1.3 The Contractor shall note that there are other contractors, consultants, etc. which the Authority will engage from time to time with whom the Contractor shall have to similarly coordinate.

### **1.2 Interfacing Contractors and Other Parties**

1.2.1 The list of major Interfacing Civil Contractors and System-wide Interfacing Contractors is given in Tables A.1 and A.2 respectively. The Contractor is also required to interface and coordinate his construction activities with the Other Interfacing Parties and their appointed contractors where applicable, who may be working in the vicinity of the Contractor's Works Areas. This shall include, but not be limited, to the list given in Table A.3.

**TABLE A.1**  
**INTERFACING CIVIL CONTRACTS**

**TABLE A.1: INTERFACING CIVIL CONTRACTS**

<b>NO</b>	<b>CONTRACT</b>	<b>DESCRIPTION OF CONTRACT</b>
CR205	Station	Design and Construction of King Albert Park Interchange Station
CR207	Tunnels	Design and Construction of Bored Tunnel between Maju and Clementi Stations
TBA	Instrumentation and Monitoring Contracts	Instrumentation and Monitoring Specialist Contractor
TBA	Web-based Instrumentation Database	To provide Web-based Instrumentation Database for collecting, managing and presenting monitoring data

TBA – To be advised

**TABLE A.2****SYSTEM-WIDE CONTRACTS**

There will be various Electrical and Mechanical (E&M) Systems and Services contracts employed for the CRL2. These contracts are referred to as “System-wide Contracts” (SWC). The list of SWC includes, but are not limited to, the following:

<b>No</b>	<b>CONTRACT</b>	<b>DESCRIPTION OF CONTRACT</b>
TBA	Trackwork	Design, supply, installation, testing and commissioning of the Trackwork system
CR159	Overhead Conductor Rail System (OCR)	Design, supply, installation, testing and commissioning of overhead conductor rail system.
CR151	Trains	Design, supply, testing and commissioning of Trains
CR152	Signaling System & Platform Screen Doors	Design, supply, installation, testing and commissioning of Signaling System (Trainborne and Trackside) for automatic operation / control of trains and the Platform Screen Doors (PSD)
CR153A	Power Supply Equipment & Cabling	Supply, installation, testing and commissioning of Power Supply System - High Voltage and Traction systems for Depot and Mainline.
CR155	Integrated Supervisory Control System	Design, supply, installation, testing and commissioning of Integrated Supervisory Control System for Depot and Mainline.
CR156	Maintenance Management System	Design, supply, delivery, installation, testing and commissioning of Maintenance Management System for Depot and Mainline

<b>No</b>	<b>CONTRACT</b>	<b>DESCRIPTION OF CONTRACT</b>
CR160	Communications System	Design, supply, installation, testing and commissioning of the Communications System for Depot and Mainline
TBA	Facility for Commercial Info Communication	Design, supply, installation, testing and commissioning of Facility for Commercial Info-Communication Services
CR168	Access Management System	Design, supply, installation, testing and commissioning of the Access Management System for Depot and Mainline and Fence Intrusion Detection System for Depot
TBA	Tunnel Ventilation System (TVS) & Environmental Control System (ECS)	Supply and installation of Tunnel Ventilation System and Environmental Control Systems
TBA	Electrical Services	Supply and installation of Electrical Services
TBA	Fire Protection System	Supply and installation of Fire Protection System.
TBA	Lifts	Design, supply and installation of Lifts
TBA	Escalators	Design, supply and installation of Escalators for Mainline

<b>No</b>	<b>CONTRACT</b>	<b>DESCRIPTION OF CONTRACT</b>
CR176	Construction Wagons	Design, performance, manufacture, testing, delivery, testing at Site and commissioning of Wagons
CR177	Service Locomotives	Design, performance, manufacture, testing, delivery to Site and commissioning of Diesel Locomotives
TBA	Water Handling Equipment	Supply and installation of Water Handling Equipment
CR1805	Passenger Service Centre & Station Master Room	Supply and installation of Passenger Service Centre & Station Master Room
TBA	Permanent cylinders and master key	Design, supply and installation of permanent cylinders and master key systems
CR1505	Motorised Track Trolley	Provision of Motorised Track Trolley
TBA	Street Lighting and Traffic Signals Contractors	Provision of Street Lighting and Traffic Signals Contractors
TBA	Mechanical and Electrical Services – A&A	Mechanical and Electrical Works at Mass Rapid Transit Stations

No	CONTRACT	DESCRIPTION OF CONTRACT
		<b>Automatic Fare Collection Contracts</b>
CR172A	<b>Automatic Fare Collection (AFC) Contracts</b>	Provision of AFC Gates
CR172B		Installation, Testing and Commissioning of AFC Equipment, Power, Network Infrastructure
CR172C		Provision of Passenger Service Machines and Station Computers for AFC System
CR172D		Provision of Top-Up Kiosk for AFC System.
CR172E		Provision of Backend Systems.

**TABLE A.3**  
**OTHER INTERFACING PARTIES**

<b>INTERFACING PARTIES WHEREVER RELEVANT</b>	<b>NAME</b>	
GOVERNMENT DEPARTMENTS/ STATUTORY BOARDS	BCA	- BUILDING AND CONSTRUCTION AUTHORITY
	CBPU	- CENTRAL BUILDING PLAN UNIT
	DSTA	- DEFENCE SCIENCE AND TECHNOLOGY AGENCY
	EMA	- ENERGY MARKET AUTHORITY
	FSSD	- FIRE SAFETY & SHELTER DEPARTMENT
	HDB	- HOUSING & DEVELOPMENT BOARD
	IDA	- INFO-COMMUNICATIONS DEVELOPMENT AUTHORITY OF SINGAPORE
	JTC	- JURONG TOWN CORPORATION
	LTA	- LAND TRANSPORT AUTHORITY
	MCI	- MINISTRY OF COMMUNICATIONS AND INFORMATION
	MFA	- MINISTRY OF FOREIGN AFFAIRS
	MHA	- MINISTRY OF HOME AFFAIRS
	MINDEF	- MINISTRY OF DEFENCE
	MND	- MINISTRY OF NATIONAL DEVELOPMENT
	MOH	- MINISTRY OF HEALTH
	MOM	- MINISTRY OF MANPOWER
	MOE	- MINISTRY OF EDUCATION
	MSE	- MINISTRY OF SUSTAINABILITY AND THE ENVIRONMENT
	NEA	- NATIONAL ENVIRONMENT AGENCY
	NHB	- NATIONAL HERITAGE BOARD
	NPARKS	- NATIONAL PARKS BOARD
	PTC	- PUBLIC TRANSPORT COUNCIL



INTERFACING PARTIES WHEREVER RELEVANT	NAME	
	PUB	- PUBLIC UTILITIES BOARD
	SCDF	- SINGAPORE CIVIL DEFENCE FORCE
	SLA	- SINGAPORE LAND AUTHORITY
	SPF	- SINGAPORE POLICE FORCE
	TP	- TRAFFIC POLICE DEPARTMENT
	TC	- TOWN COUNCIL
	URA	- URBAN REDEVELOPMENT AUTHORITY

<b>INTERFACING PARTIES WHEREVER RELEVANT</b>	<b>NAME</b>
PRIVATISED UTILITY COMPANIES	M1 Limited Power Supply Ltd Powergas Ltd Singapore Power Ltd Singapore Telecommunications Ltd SP PowerAssets Ltd SP Powergrid Ltd SP Telecommunications Pte Ltd Starhub Pte Ltd Xenith Infrastructure Group Viewquest Pte Ltd Netlink Trust
AUTHORITY'S CONSULTANTS	WSP Consultants Pte Ltd – CR2007 M&E Engineering Consultant eAC - Accredited Checker for CRL2 (TBA) QP(S) - Qualified Person (Supervision) for CRL2 (TBA)
LTA IN-HOUSE DESIGNER	Design of Power Supply System (High Tension & Traction Power)  Design of Tunnel Ventilation System (TVS) and Temporary Tunnel Ventilation System (TTVS)  Design of Environment Control System (ECS)

<b>INTERFACING PARTIES WHEREVER RELEVANT</b>	<b>NAME</b>
LTA WORKS TRAIN	Works Train Office operates the TRIP and controls the access into the 'Defined Areas' under its control during TRIP and Test Running.
PUBLIC TRANSPORT OPERATORS	SBS Transit SMRT Trains SMRT Buses Tower Transit Singapore Go-Ahead Singapore