CHAPTER 1

Introduction & Project Overview

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1. INTRODUCTION

The Jaipur Metro Rail Corporation (JMRC) has successfully completed the follwoing Metro Lines, under Phase I.

1.1 Phase I A

Line 1 : Mansarovar - Chand pole

This line consists of 1 underground station –chandpole and elevated stations. The OCC of the line is situated at depot- mansrovar.

2. PHASE-IB PROJECT

2.1 Corridors Covered

The Phase-1B Project comprises the following Corridors Chand pole to Badi chaupar

2.2 Revenue Operation Dates (ROD)

However, the alignment of above Corridors, number of stations and ROD may change during design and construction stage.

3. SCOPE AND PURPOSE

3.1 Purpose of this Document

This Specification defines the objectives, guidelines and requirements for Supply, Installation, testing and commissioning of Auxiliary Substations and SCADA interface for the Chand Pole to Badi chaupar underground Section of Jaipur Metro Rail Corporation (JMRC), collectively referred to as. JP/EW/1B/E2

The works to be executed under the Contract include manufacture, verification of design, transfer of technology, delivery, installation, testing, including integrated testing and commissioning, technical support, supervision of maintenance, training of Employer's staff and documentation for a complete System necessary to deliver the requirements of this Specification.

3.2 Relevant Documents

This Specification should be read in conjunction with the General Conditions of Contract (GCC), the Special Conditions of Contract (SCC), the General Specification (GS), the Employer's Drawings and any other document forming part of the Contract.

In the event of a conflict between the GS and this Specification, this Specification shall prevail.

In the event of a conflict between this Specification and any other standards or specification quoted herein, the requirements of this Specification shall prevail.

The order of precedence, with item a) having the highest priority, is:

a) Technical Specification

b) General Specification

c) Indian Railway Standards

d) Indian Standards

e) International Standards referenced herein.

f) Other International Standards

g) Other National Standards.

Notwithstanding the precedence specified, the Contractor shall always immediately seek advice from the Employer in the event of conflicts between Specifications.

3.3 Verification of Deisgn

Although responsibility for the design service of the Works lies with the DMRC wherever applicable, the JP/EW/1B/E2 Contractor shall thoroughly satisfy himself that the tentative capacities, ratings and quantities of equipment as specified herein meet the operational requirements.

Taking into account the technical and other data contained in the Bid document, the Bidder shall verify the ratings, quantities of equipment etc as specified herein and if the Bidder considers any additional equipment, equipment of higher capacities and higher ratings for the systems and sub-systems or any other additions necessary for the complete, safe and reliable operable power supply system, he shall include such items in his bid, as additional items, providing all clarifications and justifications for the same.

4. OVERVIEW OF PROJECT

4.1 Phase I B Corridors

As stated in 2.1 above, the Phase 1B Project of JMRC comprises the following Corridors

4.2 Not used

4.3 Power Supply for Phase IB Corridors

4.3.1 Receiving Substations

Under Normal conditions, electric power to the above Corridors is supplied by the follwoing Receiving Substations, hereinafter referred to as RSS.

s.no	RSS	
1	Mansarovar	
2	Shindi camp	

4.3.2 Traction & Auxiliary Supplies

At the JMRC Receiving Substations, the Incoming High Voltage Supply will be stepped down

- to 27.5 kV, single phase and will be fed to the traction overhead equipment, through a Traction Substation (TSS), located in the same premises as the RSS.

- to 33kV, three phase and will be fed to the 33 kV Auxiliary Network and the Auxiliary Substations, to meet the Auxiliary power demand at stations and en-route, through an Auxiliary Main Substation (AMS), located in the same premises as the RSS.