BAY MARSHALLING KIOSK

1. INTRODUCTION

Bay Marshalling Kiosk is envisaged for distribution of AC & DC Power supply to switchyard equipments in switchyard of 33kV/11 kV Substation & any other connection for bay equipment. All control cables to and from control room to switchyard equipment shall be terminated to this kiosk en-route. This would facilitate location of any fault and early repair and replacement. One no of BMK will be installed at 33kV side and one no of BMK will be installed at 11kV side in the switchyard.

1.1. CONSTRUCTIONAL FEATURE

Panels shall be completely metal enclosed and shall be dust, moisture and vermin proof and compartmentalized. The minimum size of the panel shall be 1000 mm (l) x 500 mm (w) x 500 mm (h). The enclosure shall provide a degree of protection not less than IP-55 (for outdoor) in accordance with IS: 13947 and the necessary gasket shall be provided as per section-I (Introduction and general technical requirements). It should be free standing, floor mounting type and smooth finished, made of cold rolled sheet steel of thickness not less than 3 mm for weight bearing members of the panels such as base frame, front sheet and door frames, and 2.0mm for sides, door, top and bottom portions. There shall be sufficient reinforcement to provide level transportation and installation. Design, materials selection and workmanship shall be such as to result in neat appearance, inside and outside with no welds rivets or bolt head apparent from outside, with all exterior surfaces tune and smooth. The colour of the finishing paint shall be light grey in accordance with shade no.697 of IS: 5 or in matching colour of other existing Panels.

1.2. TECHNICAL DETAIL

This will consist of consisting of following incoming & outgoing AC & DC feeder.

AC Portion:

i. 1 No.- 3 Phase 415V, 63A incomer through 4P MCCB
ii. 1 No.- 3 Phase 415V, 32 A outgoing feeder through 4PMCB
iii. 9 Nos.- 1- Phase 240V, 10 A outgoing feeder through 1P MCB

DC Portion:

i. 1 No.- 30V, 32A incomer with ON /OFF switch & fuse
ii. 10 No.- 30V, 6 Amp. outgoing feeder with fuse

Control Cable Portion:

Sufficient number of terminal blocks shall be provided with 10% spare terminals. The terminal blocks and wiring shall be numbered.