

11.4.6 DEWA Meter/Control room requirement for Direct 11kV Supply

Area	29.16 m ² (5.4 m X 5.4 m)	<ul style="list-style-type: none"> • Regular type of RMU room made of block work and RCC slab for two numbers of 11kV feeders. • For every additional feeder approximately 8m² extra space required.
	6.1m x 6.1m (open to sky)	<ul style="list-style-type: none"> • Open to sky with FGRP kiosk (to be supplied by DEWA) for two numbers of 11kV feeders. • For additional feeder same space required. • The height of the boundary wall (3 sides) around the RMU foundation substation shall be not more than 2.1m

11.5 SUBSTATION VENTILATION FOR GROUND FLOOR

11.5.1 Substation at ground floor must be naturally ventilated with minimum two side's ventilation with aluminum louver doors and fixed aluminum louvers.

11.5.2 Fixed aluminum louver window(s) should be at 0.6m above outside level.

11.5.3 Transformer room aluminium louver door size to be 3.05m x 2.75m (H). Door details shown in Appendix 16 and Appendix 17

11.5.4 RMU room aluminium louver door size to be 2.44m or 3.05m x 2.75m (H), Refer Appendix 16 and Appendix 17

11.6 FORCED VENTILATION(ONLY FOR BASEMENT TRANSFORMER ROOMS)

11.6.1 Must have minimum two side's ventilation with aluminum louver doors and fixed aluminum louvers window. Fixed aluminum louver window(s) should be at 0.6m above outside level.

11.6.2 Total minimum Grill area is 14.9 m² for 1000kVA transformer and 18.6m² for 1500kVA transformer.

11.6.3 Adequate independent mechanical ventilation to be provided as per requirements for transformer room at basement level by providing calculations supporting the adequacy of mechanical ventilation proposed for maintaining the ambient temperature in the substation at maximum of 55C° based on outside air temperature of 48C°. Refer Appendix 18.