One Avighna, Worli

Dubbed as South Mumbai's Crown Jewel, One Avighna Park is a luxurious residential high-rise in Worli. An impressive superstructure, it is a blend of cutting-edge architecture, world-class design and ingenuous use of space. The project has bagged 40 national and international awards for its excellence and exclusivity. The client was particular about installing only the best-in-class fire safety system in the building. VEMCs have supplied the Fire-Fighting Control Panel as per customer requirement.
Before supplying the panel, this project required thorough preparation on our part. As part of our preliminary analysis, we did detailed calculations while selecting the switchgear and incomers for the fire panel considering the fire pump load. To start with, we preferred the type-2 selection charts. Like in all our projects, only a CPRI (Central Power Research Institute) approved panel was supplied. We did detailed calculations on temperature rise, derating of switchgear and bus bar selection calculation were a significant part of our groundwork.

The panel has been designed to start the fire pump automatically as soon as drop in the pressure is detected by the pressure switch. The operation sequence of the fire pumps is as follows:

- The jockey pump will start when the system pressure drops by 0.5 kg/cm^2 and stop when the system pressure is re-established.
- The main fire pump will start when the system pressure drops by 1.0 kg/cm^2 and shall continue to run till it is manually switched off.

A red indicator on the panel signals the start of the jockey fire pump. The same is also indicated on the remote push button station installed nearby the security cabin.

Apart from the pressure switch, the fire pump can also be started manually using local start/stop push buttons on the local motor control panel and an emergency stop switch. Remote controls can be operated by Remote push button station. In fact, one of the most useful features of the pump in the event of an outbreak is its capability to be started remotely using RS 485 Modbus connectivity and BMS potential free contacts.

The motor starters consist of electrically actuated contactors. The starter has ON-OFF push buttons, besides being fully-loaded with automatic controls like timers and auxiliary contacts. Each pump has been provided with a voltmeter, ammeter and selector switch. As soon as the fire-pump starts, an electric siren will go off in the whole building signaling evacuation. All internal wiring to starter and control switches has been done using armored PVC FRLS (Flame Retardant Low Smoke) cables of approved makes. To ensure the safety of switchgear and delegated components, we have also provided the optional Gas Suppression System within the panel.

For more information on our fire-fighting solutions and control panels, feel free to contact us on +91 98199 07445. We would be happy to assist you in finding the best match based on your

requirements. As one of the leading Fire Fighting panel manufacturers, VEMC provides best-in-class products and installation services to its clients. A renowned electrical panel manufacturer in Mumbai, VEMC is ISO 9001:2015 certified and a pioneer in the field of electromechanical engineering products, allied equipment, and services.