

# FND PROFILE ON SHOPPING MALLS

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## Scope of Services Provided

FND offers a comprehensive range of engineering consultation services in a wide spectrum of electrical & mechanical fields. We serve clients in the commercial, institutional, educational, residential, industrial, hospitality, retail, and cultural market segments. We are one of the largest private sector engineering consultants in Pakistan and regularly undertake projects in all parts of the country.

FND offers services from feasibility studies to project planning, design, specifications, bills of quantities, bidding process and construction supervision. Since its inception in 1987, FND has completed more than 1300 projects for a diverse roster of satisfied clients.

### 1. **Project No.: 1264** **Emporium Mall, Lahore – MEP Systems**

Emporium Mall is a 2.8 million sft project consisting of Retail Mall, Banquet Halls & a Hotel.

The project is due for completion in early 2016, and FND is responsible for the complete design of the mechanical & electrical systems for the project, consisting of the following services:

- HVAC System
- Fire Protection System
- Water Supply System
- RO Plant
- Steam Distribution System
- Sanitary Drainage System
- Storm Water Drainage System
- Gas Distribution System
- Medium and Low Voltage Power Distribution
- Interior and Exterior Lighting
- ELV Systems- Fire Alarm, Communications, CCTV, Access Control, PA
- Switchgear & Earthing
- PFI Plant
- Standby Generators
- Building Management System



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## 2. **Project No.: 1289** **Packages Mall, Lahore – MEP Systems**

Packages Mall is a Retail Mall having a total covered area of 1 million sft.

The project is due for completion by end 2016, and FND is responsible for the complete design of the mechanical & electrical systems for the project, consisting of the following services:

- HVAC System
- Fire Protection System
- Water Supply System
- Sanitary Drainage System
- Storm Water Drainage System
- Gas Distribution System
- Medium and Low Voltage Power Distribution
- Interior and Exterior Lighting
- ELV Systems- Fire Alarm, Communications, CCTV, Access Control, PA
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### 3. **Project No.: 1097** **Building Centre, Karachi – HVAC System**

Building Centre located at Shara-e-Faisal, Karachi is a mixed used development which includes retails and offices & has a total area of 350,000 sft.

The 1<sup>st</sup> phase (80,000 sft) consisting of Retails has been completed & commissioned in early 2015. The 2<sup>nd</sup> phase (270,000 sft) consisting of offices is under design & due for completion in 2017.

FND is responsible for the design & supervision of the complete HVAC system for this project.



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## 4. Project No.: 0931 Dolmen City Clifton, Karachi – MEP Systems

Dolmen City, located on the southern end of Karachi on the sea coast, is a 3 million sft multi-purpose development consisting of the following features.

- Executive Tower – 17 storied office tower
- Harbor Front – 19 storied office tower
- Shopping Mall – 03 storied Mall
- Office Towers – 2x36 storied office towers



The Executive Tower was completed in 2005, the Harbor Front in 2007 & the Shopping Mall opened in November 2011.

The complex has two basements of approx 390,000 sqft with ductless ventilation system (Impulse ventilation system).

The central plant room of 7250 ton was commissioned in 2011 to serve Executive Tower, Harbor Front & Shopping Mall. The plant room is located on 8<sup>th</sup> floor above the open parking area.

The complete complex has a dedicated water based fire suppression system designed to NFPA standards with UL/FM fire pumps.

FND provided services for the design and supervision of the complete HVAC & Fire Suppression System for the Executive Tower, the Harbour Front & the Shopping Mall. For the 2x36 storied towers FND is providing complete MEP services.



## 5. Project No.: 0670 Dolmen Mall, Tariq Road Karachi – HVAC & Fire System

Dolmen Mall Tariq Road was inaugurated in 2001. The mall has a gross area of 450,000 square feet, spread over six floors, and contains 300 retail outlets, a large food court and a family entertainment area. FND provided services for the design and supervision of the complete HVAC & Fire Suppression System



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6. **Project No.: 0963**  
**Dolmen Mall Hyderi Karachi – HVAC System**

Dolmen Mall Hyderi, located in North Nazimabad, caters to the densely populated northern part of Karachi, and opened its doors in 2008.

The mall has a gross area of 100,000 square feet, spread over six floors, and contains 50 retail outlets, a food court and a family entertainment area.

FND provided services for the design and supervision of the complete HVAC System.

