

Revival of Lake- Purana Qila

PondGard Lining



Purana Qila has been one of the major tourist attractions in the national capital and combined with the Delhi Zoological Park, a large number of visitors throng to visit the historical vestiges, which date back to around 3,000 years back. Purana Qila was founded in 1538.

Created out of the moat that once ran along the Purana Qila, the lake was a popular picnic spot for decades. But with time and neglect, the lake started drying up. The project to revive the lake was undertaken by the Archaeological Survey of India and the National Buildings Construction Corporation as part of the government's 'Adopt a Monument' scheme.

Firestone lining system was installed for waterproofing the whole lake spread over an area of 28300 sqm. It includes dredging, placing plastic waterproofing membrane in the bed, installation of aerating fountains and a silt chamber to prevent rainwater sludge flowing into the lake.

J.M. Enviro Technologies Private Limited, an authorized firestone contractor experienced in lining applications, was chosen to carry out this installation. Firestone PondGard offers a very robust lining system. The membrane comes in several sizes that can go up to very large sheets (930 m²). For this project large membranes were used to make the installation a lot easier and reduce the installation time. Firestone EPDM PondGard also offers high durability under fully exposed conditions. Rocks used for ballasting won't puncture the membrane. The elongation properties help the membrane to accommodate to

Quick Facts

Project scope:

- ❖ Lake Revival Project
- ❖ 22000 sqm of **PondGard** lining carried out with 1.1 mm Firestone EPDM
- ❖ High visibility and prestigious project
- ❖ To deliver an excellent waterproofing to preserve water for seeping into the grounds
- ❖ **Client: NBCC**
- ❖ **General Contractor: J.M. Enviro Technologies Private Limited**

Challenges faced

- ❖ Airlifted the material
- ❖ Concerned raised by environmentalist regarding the use of waterproofing membrane
- ❖ A lot of rock work on the liner Solutions offered by Firestone

Features of EPDM PondGard:

- ❖ Waterproofing membrane High elasticity (>300%)
- ❖ Long-term durability
- ❖ Large sheets reducing on site seaming (930 m²)
- ❖ Fast and easy installation
- ❖ Treating pipe penetrations, islands and waterfalls present in lake
- ❖ High flexibility (at high and low temperatures, as a result adapts to irregular shapes)
- ❖ High puncture resistance

differential soil settlements. Waterfalls, islands, even pipe penetrations are no problem for the Firestone EPDM PondGard. Firestone offers a complete range of waterproofing solutions.

DBS (authorized Firestone distributor) provided a continuous support in ordering all materials as well as coordinating the installation of the lining system. The result of this excellent collaboration is an artificial lake that meets all expected standards.



For further information about waterproofing applications, please contact: DBS Building Products Sri Sobha Sing Building, 5286-87, Shardhanand Marg Delhi-110006 Tel: 011-66308888/23216062 Email: sales@delhibuilder.com / info@dbsbp.com