

# Technology Fact Sheet

## Technology/Product

## Post Tensioned Masonry Retaining Wall System

Year

2017

Patent Details

None

Description of technology



### Features of Post Tensioned Masonry Retaining Wall System

Post Tensioned Masonry Retaining Wall System consists of 6" thk. masonry block work manufactured with 1: 5 cement: quarry dust mortar post-tensioned eccentrically with 5mm H.T.S. steel wires. The Post Tensioned Masonry Retaining Wall is constructed on a insitu concrete foundation and a insitu concrete tie beam is laid at the top of the wall.

### General Information

1. Masonry blocks are used
2. Maximum height 10'-0"
3. Thickness of the wall 6"

### Advantages/Benefits

1. No vertical formwork and concrete in the wall
2. Light –weight thin precast panels
3. Easy handling and transport
4. Aesthetically pleasing
5. Fast construction
6. simple technique

### Areas of application

- Steep slopes
- Road Embankments
- Buildings with level differences

### Cost as at 2019

1 sq.ft. – Rs.1,100.00 (including excavation and foundation)

### *Contact Details*

*National Engineering Research and Development Centre , IDB Industrial Estate , Ekala , Ja-Ela, Sri Lanka*

*Telephone : 0094-11-2236307, 0094-11-2236384*

*Fax : 0094-11-2233153*

*E-mail : [nerdcentre@nerdc.lk](mailto:nerdcentre@nerdc.lk)*

*Web : [www.nerdc.lk](http://www.nerdc.lk)*