




# Technology Fact Sheet

<b>Technology/Product</b>	<b>Pre-stressed Concrete Retaining Wall Panels</b>
<b>Year</b>	2016
<b>Patent Details</b>	None
<b>Description of technology</b>   	<b><u>Features of Prestressed Concrete Retaining Wall Panels</u></b> <p>Prestressed Concrete Retaining Wall System consists of rectangular shape pre-stressed concrete panels with thicknesses varying from 3" -7" which is fixed on a insitu concrete foundation and a insitu concrete tie beam at the top of the wall. These panels contain maximum of 6 nos. of 5 mm high tensile steel wires tensioned to 20 kN each. Grade 40 concrete is used to cast the pre-stress panels and the insitu concrete foundation is G25 concrete.</p> <b><u>General Information</u></b> <ol style="list-style-type: none"><li>1. Grade 40 concrete is used</li><li>2. 5mm HTS wires are used</li><li>3. Wires are tensioned to 20kN</li><li>4. Timber planks &amp; "C" channels are used as formwork</li></ol> <b><u>Advantages/Benefits</u></b> <ol style="list-style-type: none"><li>1. Thin precast panels</li><li>2. Easy handling and transport</li><li>3. High durability</li><li>4. Aesthetically pleasing</li><li>5. Fast construction</li></ol> <b><u>Areas of application</u></b> <ul style="list-style-type: none"><li>• Prestressed concrete retaining walls up to 12'-0"</li></ul> <b><u>Cost as at 2019</u></b> <p>1 sq.ft. – Rs.1,250.00</p>

## Contact Details

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