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(54) Title of the invention : IN-LEVEL STABILITY OF UNIFORM STEEL BEAMS - COLUMNS WITH IMMOVABLE SUPPORTS ON PASTERNAK TYPE ELASTIC GROUND

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(57) Abstract :

According to the detailed description of the Pasternak model, this simulation assumes the existence of a shear interaction between the spring elements. This is achieved by connecting the ends of the springs (Winkler layer) to a beam (or disk) consisting of uncompressed vertical springs, which are deformed only in transverse shear. This hypothesis together with the consideration of the mechanical behavior of the model or the actual medium demonstrates that the Pasternak type foundation is the most natural extension of the Winkler model for homogeneous foundations. In the following, the response to bending of metal beams - columns on Pasternak type foundation will be analyzed, focusing on cases of coupling of forms for the bifurcated and bifurcated beam (without reduction of length) for welded rails.

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(54) Title of the invention : ECO-FRIENDLY BRICK & PAVER BLOCK

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(57) Abstract :

7. ABSTRACT A method (1) for preparation of eco-friendly brick & paver blocks is disclosed wherein the said method (1) comprises of mixing clay (2) in various proportions combined with waste rubber (3) or dry grass (7) or bagasse waste (4) or tree bark (5) or egg shells (6) or in other ecological wastes (8). Further said bricks shall be removed from mould and air dried for 1-2 days, thereafter, air dried bricks should be water cured for a minimum period of 14 days wherein curing is carried out by sprinkling water manually or by other means. The said eco-friendly bricks have been observed to show a more inferior performance than conventional cement bricks in compression, water absorption, falling weight and efflorescence, but showed an encouraging result in compression. The Figure associated with the Abstract is Fig 1.

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