

## CERTIFICATE

This is to certify that the dissertation entitled “**Seismic Performance of Indian Code ATC-40 Designed RC Buildings**” which is being submitted herewith for the award of the ‘**Master of Engineering in Civil Structures**’ of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Ms. Neha Vilasrao Patil (Seat No. 9D1800009)** under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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This is to certify that the dissertation entitled **“Comparative Study on the Seismic Analysis and Wind Analysis of Multi-Storey RC Building with Regular and Irregular Plan Shapes”** which is being submitted herewith for the award of the **‘Master of Engineering in Civil Structures’** of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Ms. Mangal Dnyanoba Kumbhar (Seat No. 9D0000105)** under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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This is to certify that the dissertation entitled **“Incremental Dynamic Analysis, Eigen Value Analysis & Response Spectrum Analysis of Existing RC Framed Buildings by using Seismostruct Software”** which is being submitted herewith for the award of the **‘Master of Engineering in Civil Structures’** of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Mr. Rahul Diliprao Rakshe (Seat No. 9D0000107)** under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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This is to certify that the seminar entitled **“PERFORMANCE EVALUATION OF CFT BRACING SYSTEM BY TIME HISTORY ANALYSIS”**, which is being submitted herewith for the award of the **‘Master of Engineering’ in CIVIL ENGINEERING** of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **‘RUPA ANIL WALUNJ’** under my supervision and guidance. The work embodied in this seminar has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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This is to certify that the dissertation entitled “**Comparative Study on Behavior of High Rise RCC Structure with Shear Wall and High Rise RCC Composite Structure with Consideration of Non-linear P-Delta Analysis**” which is being submitted herewith for the award of the ‘**Master of Engineering in Civil Structures**’ of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Mr. Mohammed Imran Abdul Rasheed (Seat No. 9D0000069)** under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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This is to certify that the dissertation entitled “**Seismic Response Reduction of Multistoried Buildings Using Metallic Bracing**” which is being submitted herewith for the award of the ‘**Master of Engineering in Civil Structures**’ of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Miss. Kavita Babruvan Sagare** (Seat No. 9D0000052) under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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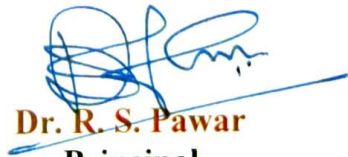
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This is to certify that the dissertation entitled “**Study of SSI and Resonance Effect on Bridge Structures under Moving Loads**” which is being submitted herewith for the award of the ‘**Master of Engineering in Civil Structures**’ of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Ms. Kashmira Ajay Puranik** (Seat No. 9D0000061) under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.




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This is to certify that the dissertation entitled “**Dynamic behaviour of elevated conical water tank**” which is being submitted herewith for the award of the **Master of Engineering in Structures** from Shreeyash College of Engineering And Technology Aurangabad (Maharashtra). This is the result of the original research work and contribution by **Mr. Anil Kishanrao Chikyal** under the supervision and guidance research centre. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma / examining body or university to the best of knowledge and belief.



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This is to certify that the dissertation report entitled “**Bending Analysis of Thick Isotropic by Using 5<sup>th</sup> Order Shear Deformation Theory**”, which is being submitted to Shreeyash College of Engineering and Technology, affiliated to Dr. Babasaheb Ambedkar Marathwada University Aurangabad, Maharashtra State, India in the faculty of Science and Technology in partial fulfillment of the requirements for the award of ‘**Masters**’ in ‘**Structural Engineering**’. This is the result of the original work and contribution by ‘**Ms. Supriya Patil**’ under our supervision and guidance. The work embodied in this report has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma / examining body or university to the best of knowledge and belief.

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This is to certify that the project report entitled "**Displacement and Stresses in deep Beams Using Trigonometric Shear Deformation Theory**", which is being submitted to Shreeyash College of Engineering and Technology, affiliated to Dr. Babasaheb Ambedkar Marathwada University Aurangabad, Maharashtra State, India in the faculty of Science and Technology in partial fulfillment of the requirements for the award of '**Masters**' in '**Structural Engineering**'. This is the result of the original work and contribution by '**Mr. Pravin Kapdis**' under my supervision and guidance. The work embodied in this report has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma / examining body or university to the best of knowledge and belief.

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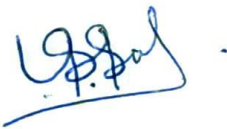
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This is to certify that the project report entitled “**Comparative Study of Multi Storey Building Using Inelastic Static Analysis**”, which is being submitted to Shreeyash College of Engineering and Technology, affiliated to Dr. Babasaheb Ambedkar Marathwada University Aurangabad, Maharashtra State, India in the faculty of Engineering and Technology in partial fulfillment of the requirements for the award of ‘**Masters**’ in ‘**Civil-Structures**’. This is the result of the original work and contribution by ‘**Mr. Dake Govind Hanuman**’ under my supervision and guidance. The work embodied in this report has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma /examining body or university to the best of knowledge and belief.

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This is to certify that the thesis entitled **“STUDY OF EFFECT OF SEISMIC EXCITATION ANGLE FOR THE ANALYSIS OF RC FRAME”**, which is being submitted herewith for the award of the **‘Masters of Engineering’ in ‘Structural Engineering’** of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by **Rupali S. Jadhav** under my supervision and guidance. The work embodied in this project report has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.



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This is to certify that the dissertation entitled “**Flexural Performance of Lightweight Ferrocement Panels by Using Expanded Metal Mesh With and Without Glass Fiber: An Experimental Study**”, which is being submitted herewith for the award of the ‘**Master of Engineering**’ in ‘**Civil Engineering**’ of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. This is the contribution by ‘**Rajendra Subhash Khamkar**’ under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this for any other diploma/examining body or university to the best of knowledge and belief.

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