



## APPLICATION NOTE

### OS8200 CONCRETE TEST HAMMER

**Oriental Structural  
Engineers Private Limited**



**Client: Oriental Structural Engineers Private Limited**

**Project Name: Badshahpur-Sohna Road Project**

#### **Requirement:**

To check the compressive strength of the concrete being used in structures for Badshahpur-Sohna Road Project .

#### **Solution:**

Oriental Structural Engineers uses OS8200 concrete hammers to check the compressive strength of the concrete being used for Badshahpur-Sohna Road Project .

<p><b>Requirement:</b></p> <p><b>To check the compressive strength of the concrete being used in structures for Badshahpur- Sohna Road Project.</b></p> <p>Oriental Structural Engineers requires checking concrete strength of the structures being used in Badshahpur- Sohna Road Project &amp; ensure concrete meets the parameter defined as per the laid design.</p>	<p><b>Solution:</b></p> <p><b>Oriental Structural Engineers uses OS8200 concrete hammers to check the compressive strength of the concrete being used.</b></p> <p>OSE uses OS8200 concrete hammers to check the compressive strength of the concrete being used in Badshahpur- Sohna Road Project.</p> <p>OS8200 concrete test hammer is a rebound hammer which has long been the global benchmark for non-destructive compressive strength testing.</p> <p>Rebound Hammer test is a Non-destructive testing method of concrete which provides a convenient and rapid indication of the compressive strength of the concrete.</p> <p>When rebound hammer is pressed against the surface of concrete, a spring controlled mass with a constant energy is made to hit concrete surface to rebound back. The extent of rebound, which measures surface hardness, is measured on a graduated scale. This measured value is designated as Rebound Number.</p> <p>OS8200 is a highly accurate, reliable, and versatile concrete hammers through which testing of a whole structure from different points is possible in 10 minutes.</p>
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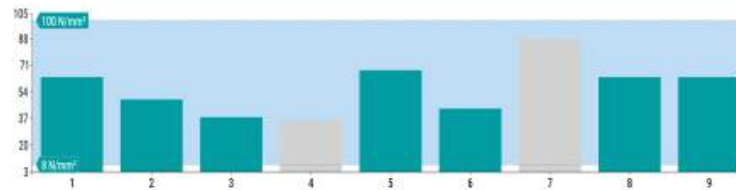
The hammer is integrated through a **Schmidt** mobile app that lets you annotate measurements with voice, photos and comments & generate reports instantly. One can easily share the generated report in a second. The Digital hammer can wirelessly connect to a Bluetooth printer for direct print-out of test results.

OSE measures the strength of concrete through OS8200 hammer & all test data were logged in the mobile app along with GPS tag.

In OS 8200, the output Q value brings greater accuracy at higher strengths as it is proven that Q-value delivers more accurate correlations for custom material curves. The output value (Q value) were logged by the equipment itself for highly accurate analysis.

Operator: Narendra kumar  
 Folder Name: All Measurements  
 Created Date: 08/31/2020 18:08:58  
 Last Modified Date: 08/31/2020 18:08:58  
 Measurement Average Compressive Strength: 54.8 N/mm<sup>2</sup>

**Measurement Bar Graph**



**Table View**

#	Angle (°)	Q	N/mm <sup>2</sup>
1	0	55	64
2	0	51	49.5
3	0	47	38.4
4*	0	46	36
5	0	56	68.2

#	Angle (°)	Q	N/mm <sup>2</sup>
6	0	49	43.6
7*	0	60	68.1
8	0	55	64
9	0	55	64

\* Outlier

**Statistics**

Readings: 7  
 Average: 54.8 N/mm<sup>2</sup>  
 Standard deviation: 11.9 N/mm<sup>2</sup>  
 Minimum: 38.4 N/mm<sup>2</sup>  
 Maximum: 68.2 N/mm<sup>2</sup>  
 Range: 29.9 N/mm<sup>2</sup>  
 Relative Span: 53.4%