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LAMPIRAN


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Persiapan material










Pengujian karakteristik material






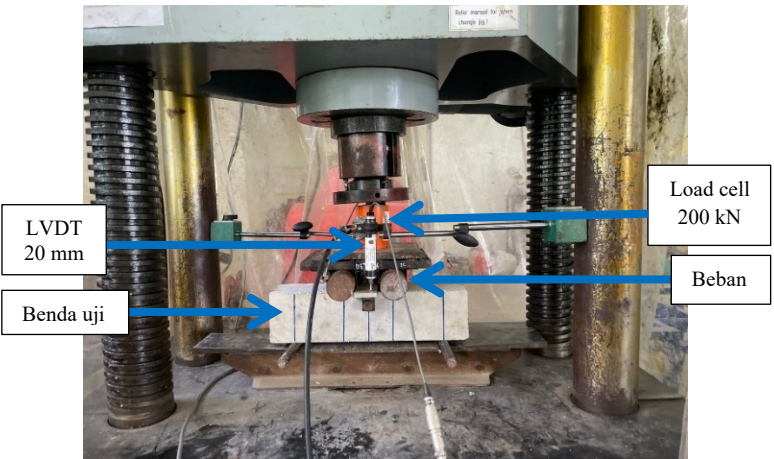
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<p>Pengujian karakteristik material</p>	
<p>Penimbangan material yang akan digunakan (Air, semen, agregat kasar (batu pecah dan limbah batu bata tahan api), agregat halus)</p>	
<p>Pencampuran material menggunakan <i>mixer</i> berkapasitas 75 liter.</p> <p>1. Pertama, agregat limbah batu bata tahan api, batu pecah, pasir dan semen dimasukkan ke dalam mixer dan dicampur selama 60 detik.</p>	

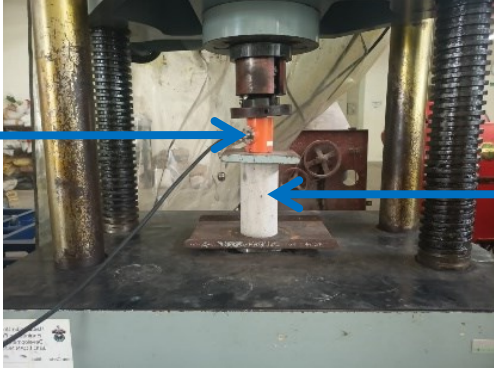
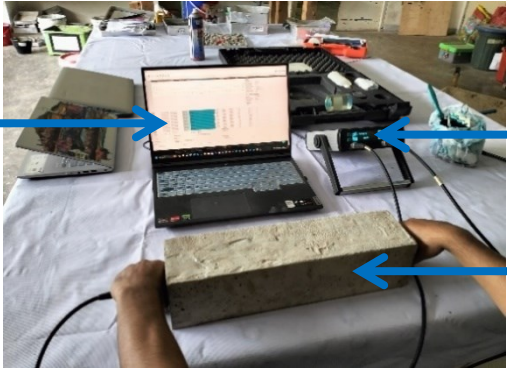

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<p>2. Selanjutnya, air ditambahkan secara bertahap ke dalam mixer, dan pencampuran dilanjutkan selama 120 detik.</p> <p>3. Kemudian, campuran beton diaduk secara manual agar bahan – bahan yang menempel pada bagian bawah dan dinding mixer tercampur rata.</p> <p>4. Pencampuran menggunakan mixer dilanjutkan selama 60 detik hingga diperoleh kombinasi campuran beton segar yang merata.</p>	  
<p>Pengujian slump beton dengan target nilai desain slump yaitu 20 ± 2 cm</p>	
<p>Memasukkan campuran ke ke dalam cetakan silinder besi berdiameter 100 mm dan tinggi 200 mm, lalu dipadatkan selama 60 detik menggunakan mesin vibrator.</p>	 

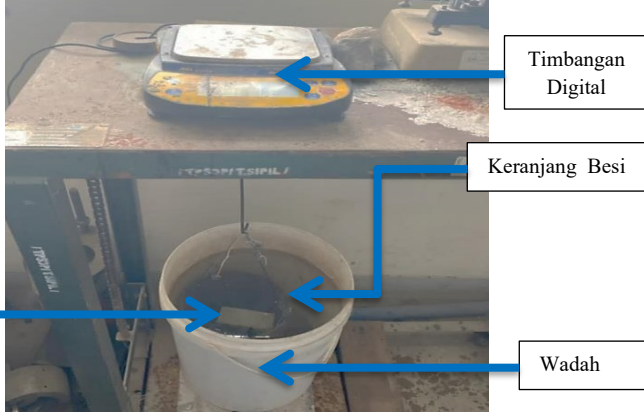
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<p>Memasukkan campuran ke dalam cetakan silinder besi berdiameter 100 mm dan tinggi 200 mm, lalu dipadatkan selama 60 detik menggunakan mesin vibrator.</p>	
<p>Proses perawatan (<i>curing</i>) benda uji beton semua variasi di <i>curing</i> menggunakan air pada suhu 20°C selama 7 dan 28 hari.</p>	
<p>Pengujian Kuat Lentur Beton</p>	

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	Program Studi Magister Teknik Sipil	NIM : D012221013
LAMPIRAN		Tgl Percobaan: September 2023

Pengujian Kuat Tekan Beton	 <p>Load cell 200 kN</p> <p>Benda Uji</p>
Pengujian Ultrasonic pulse velocity (UPV)	 <p>Laptop</p> <p>Punditlink</p> <p>Benda Uji</p>
Pengujian densitas	 <p>Timbangan Digital</p> <p>Benda Uji</p>

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<p>Pengujian Porositas Beton</p>	
<p>Hasil beton yang telah diuji</p>	