

ANNAMACHARYA UNIVERSITY
CIVIL ENGINEERING DEPARTMENT

Name of the Lab: Highway Engineering Lab

Name of the Lab in-charge: Mr. V. Haneef

S.No.	Equipment Photo	Name of the Equipment	Specifications	Price
1.		Abrasion Test	• Cylinder = 20cm dia x 34 cm Height • Rotational speed= 30-33 rpm	Rs. 65,100/-
2.		Bitumen Penetration Test	• Container 1: 55mm dia x 35 mm depth • Container 2: 70mm dia x 45 mm depth • Needle dia: 3 mm dia	Rs.13,950

3. S		Devals Attrition Test	• Cylindrical Dia =20cm dia x 34 cm height • Rotational Speed= 30-33 rpm	Rs.53,940/-
4.		Ductility test	• Briquette neck cross-section: 10 mm × 10 mm (±0.1 mm). • Length of elongation scale: typically, up to 150 cm.	Rs.55,800/-

5.		Impact Test	• Metal hammer weight:14 kg • Cylindrical steel cup:102 mm dia x 50 mm Height • Measuring cup:75 mm dia x 50 mm height • Tampering rod: 10 mm dia x 230 mm height	Rs.8,370/-
6.		Marshall Stability Test	Loading rate :50.88 mm /min	Rs.52,250/-

7.	 The image shows the Pensky-Morten's Apparatus, a laboratory instrument used for determining the flash point of petroleum products. It consists of a glass bath, a ring, and steel balls. A blue sign on the wall provides the following specifications: PENSKY-MORTEN'S APPARATUS Specifications Make : ENKAY Cost : Rs 20,460/- PENSKY MORTEN'S APPARATUS	Pensky Morten's Apparatus	- Standards- ASTM D93 - Temperature Range- Ambient to 370 °C - Power Input - 700 W - Stirring & Movement Mechanism - Motorized stirrer	Rs.24,460/-
8.	 The image shows the Ring and Ball Apparatus, a laboratory instrument used for determining the flash point of petroleum products. It consists of a glass bath, a ring, and steel balls. A blue sign on the wall provides the following specifications: RING BALL TEST APPARATUS Specifications Glass Bath : 85 mm dia x 120 mm depth Ring Dimensions : 15.9 mm dia top, 17.5 mm dia bottom, 6.4 mm depth Steel balls : 9.5mm dia Make : ENKAY Cost : Rs 11,160/- RING AND BALL APPARATUS	Ring & Ball Apparatus	- Glass bath: 85 mm dia. x 120 mm depth - Ring dimensions: 15.9 mm dia top, 17.5 mm dia bottom, 6.4 mm depth - Steel balls: 9.5 mm dia	Rs.11,160/-

9.		Sieve Shaker and Bitumen Extractor	• Sieves :1.7 mm & 2.6 mm • From 4.75 tom 63 mm	Rs.23,750/-
10.		Specific Gravity & water absorption	• Electronic balance: 15 kg (L.C=5 g) • Wire Basket: 6.3 mm to 7 mm mesh Size.	Rs.41,850/-