

**Office of the Director (CRTS)**  
**Khulna University of Engineering & Technology**  
Pre-define Tests under CRTS according to 5<sup>th</sup> meeting of CRTS committee on 12.06.2008

**MECHANICAL**

SL No	Name of Test	Department	Remarks
1.	<b>Material Tests</b>		
	Hardness, Tensile Strength, Compressive Strength, Ultimate Strength, Elongation, Impact strength of Ms rod, Falter Bar, Drawing, Roller, MS Shoot, MS plate, High Carbon Steel Wire, Steel, Ferrous and Nonferrous Alloys etc. Mechanical Properties of plastic, Materials, Springs(coil, flat, leaf etc)	ME	ME WILL PERFORM FOR INDUSTRY & CE WILL PERFORM FOR CONSTRUCTION WORK
2.	<b>Metallurgical Tests</b>		
	Pig Iron, Cast Iron, Brass, White Materials, Habit Materials, Ferrous and Nonferrous alloys etc.	ME	Only for related mechanical properties
3.	<b>Fuels and Oil Tests</b>		
	Coal, Crude Oil, Lubricating Oil, Grease, Furnace Oil, Castor Oil, Stand Oil, Coal ash, Carbon Black etc Flash point, Boiling point, Melting Point, Pour point, Calorific value and proximate analysis of fuels may also be tested.	ME	
4.	<b>Refrigeration and Air Conditioning equipments</b>		
	Compressor, Evaporator, Expansion Valve, Condenser, Refrigerants, Thermostatic Switch Filters	ME	
5.	<b>Dyes, Paints and Varnishes</b>		
	Textiles, Leather, including reactive dyes	ME	
6.	<b>Chemical Test</b>		
	Alum, Resin, Rubber, Gaure Gum, Natural Gum, Adhesive, Anti-free/ing Chemicals, Glacial Acetic Acid, Insulating Materials, Thinner Oil, Bleaching Powder, Optical Whitener, Dying Chemicals, Leather Tanning and Finishing Chemicals	ME	
7.	<b>Poultry Feed</b>		
	Fish Meal, Animal Fend, Samu Gura etc	ME	
8.	<b>Belts</b>		
	All typos of Belts such as V-bell, flat belt	ME	
9.	<b>Paper</b>		
	Kraft paper, Paper board, Tissue Paper, Art Paper, Emery Cloth, Filter Paper, Graphite Paper, transfer Paper, Transparent Paper etc	ME	
10.	<b>Ceramics</b>		
	Quartz Powder, Marble, Tiles, Dolomite, Limestone, Feld Spar, Mica etc	ME	<b>Other than chemical tests</b>
11.	<b>Automobile Spares</b>		
	Nozzle test and Fuel Pump Test.	ME	
12.	<b>P.V.C Pipe and Strainer</b>		
	Dimension test, Pressure test, Tensile test, Impact Test, Chemical test (Pressure test, Acetone lest, Slot dimensions, Rib dimensions and Number of ribs)	ME	
13.	<b>G. I Pipe and Strainer</b>		
	Dimensions and strengths	ME	
14.	<b>M.S Pipe and Strainer</b>		
	Dimension and strength test	ME	
15.	<b>S.S. Pipe and Strainer</b>		
	Dimension and tensile test	ME	
16.	<b>Ductile C.I Pipe</b>		
	Dimension and strength test	ME	
17.	<b>Gauge Calibration</b>		
	Pressure Gauge, Thermometer	ME	CE will do For Pile load & Plate load. All other will done by ME
18.	<b>Pump and Flow-meter Test</b>		
	Pump, Blower, Compressor characteristics, Water Flow Meter, Hand Pump No-6, Switch Valve/Gate Valve	ME	
	<b>END OF MECANICAL</b>		