

# TCR Engineering Services

## CITY OFFICE

35, Pragati Industrial Estate,  
N.M. Joshi Marg, Mumbai 400 011.  
Maharashtra, India.

Telephones :

022-23092347, 23073390, 23097921, 23097923, 23091938

Fax : 91-22-23080197

E-mail : sales@tcreng.com

## LABORATORY

TCR ENGINEERING SERVICES PVT. LTD.

Plot No. EL-182, MIDC-TTC, Electronic Zone,  
Mhape, Navi Mumbai - 400 710.

Tel. : 022-27610921-2-3, 27612324, 67380900-999

Fax : 91-22-27612044

**Price List Effective : April 1st, 2009**

[www.tcreng.com](http://www.tcreng.com)

Lab : 022-67380900-999 R.O. : 2309 1938, 2309 2347  
 Lab : 2761 0921-2-3 Fax : 91-22-2308 0197  
 Fax : 91-22-2761 2044  
 E-mail : sales@tcreng.com

**Schedule of Charges**  
**W.e.f. 1-4-2009**



<b>MECHANICAL TESTING*</b>	<b>Rs.</b>	<b>MISCELLANEOUS TEST*</b>	<b>Rs.</b>
Tensile / Transverse / Compression Test	150.00	Thermal Shock Test (1st Glass)	300.00
Tensile Test with proof Stress and Stress & Stress / Strain Diagram with Electronic Extensometer	300.00	Each additional glass	150.00
Tensile Test with 0.2% Proof Stress & Modulus of Elasticity	400.00	Zinc Coating Test each	200.00
Tensile Test of Fine Wires / Foils < 1 mm	300.00	Mercurous Nitrate Test	300.00
Tensile Test for CTD Bars		Persulphate Test on tinned wires	500.00
Upto 20mm dia	150.00	Surface characteristics of CTD bars	250.00
Over 20mm dia	250.00	Coating Test (Chemical Method)	400.00
Sectional weight of CTD Bars	100.00	Proof Load / Slip Test on fabricated items such as clamps and assemblies	400.00
Welding Charges for over 25mm dia	50.00	Erichsen Cupping test	150.00
Bend/Flattening/Flaring/Flanging/Hardness/Ball Test	80.00	Proof load test on Toughened Glasses (first)	200.00
Weldability Test	500.00	(Each Additional)	150.00
		Cleanliness Test	800.00
<b>MACRO ETCH TEST</b>		Non Conventional Item and Heavy Items (Load Test)	2000.00 Per Hour
upto 100 mm	150.00	Image Analysis & Measurement on Microscope & up	500.00
Between 100 to 200 mm	250.00	Inclusion Rating	1500.00
Over 200 mm	400.00	Hardenability Test	3000.00
Microexamination, (routine)	500.00	Austenitic Grain Size	1000.00
Microexamination (For Failure Studies)	1000.00		
Mounting Charges for small specimen	60.00	<b>CHARGES FOR FOLLOWING TESTS SHALL BE FURNISHED ON REQUEST —</b>	
Microphoto (Each Mag./ Location)	100.00	Qualitative Analysis (PMI Test)	
Microhardness Test (3 Indentation)	400.00	Ultrasonic Test	
Rebend Test	120.00	Magnetic Particle Test	
Reverse Bend Test	100.00	Dye Penetrant Examination	
		Failure Analysis	
<b>IS/BS</b>	<b>ASTM</b>	Heat Treatment of coupons	
Impact Test (a) R.T.	160.00	Inspection Services	
Impact Test (b) Upto - 60°C	180.00	NACE Corrosion Test like HIC & SSCC	
Impact Test (c) Below - 60°C	200.00	Pitting Corrosion Test	
Hydraulic / Pneumatic Test	400.00	Crevice Corrosion Test	
*(Fitting and Welding charges extra)	& up	Chloride Stress Corrosion Test	
Compression test of springs (upto 3 reading)	500.00		
Shear Test	300.00		
Ferrite Content Test (MICRO)	1500.00		
Ferrite Content Test (Digital)	300.00		
Wedge Load / Head Soundness Test	300.00		
Proof Load Test on Nuts / Bolts	200.00		

Note : Charges for other tests / NDT / INSPECTION etc. shall be furnished upon request.  
 Top priority testing for out of turn / urgent assignments - 50% extra with full payment in advance.  
 \* Sample preparation and machining charges are extra, see accompanying page for details.  
 \*\* Not applicable for base element except in case of copper alloys. For base elements refer charges under (4).  
 \*\*\* Transportation cost extra at actuals.

**IMPORTANT - SERVICE TAX @ 10.3% (or as applicable)**



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**SCHEDULE OF MACHINING CHARGES  
 PRICE LIST W.e.f. 1-4-2009**



<b>FOR TENSILE SPECIMEN</b>					<b>FOR MACROTECH TEST</b>		
Size*	Carbon Steel Plate (Rs.)	Carbon Steel Bar (Rs.)	All other Plate (Rs.)	All other Bar (Rs.)	Size*	Carbon Steel Pipes (Rs.)	All other Pipes (Rs.)
Upto 10mm	150	80	180	100	Upto 25 mm O.D.	40	50
Over 10 to 20 mm	180	100	200	120	Over 25 to 50 mm O.D.	50	60
Over 20 to 30 mm	200	120	220	150	Over 50 to 100 mm O.D.	80	100
Over 30 to 40 mm	240	180	300	200	Over 100 to 200 mm O.D.	100	140
Over 40 to 80 mm	300	220	300	250	Over 200 to 300 mm O.D.	120	160
Over 80 to 100 mm	300	255	320	300	Over 300 to 400 mm O.D.	150	200
Over 100 to 150 mm	320	300	350	350	Over 400 to 500 mm O.D.	200	300
Over 150 to 200 mm	350	320	400	400			
Over 200 to 250 mm	400	350	450	450			
Over 250 to 350 mm	500	400	500	500			

Size*	<b>For Bend Specimen</b>		<b>For Impact Specimen</b>	
	Carbon Steel Plate (Rs.)	Carbon Steel Bar (Rs.)	Carbon Steel Plate (Rs.)	Carbon Steel Bar (Rs.)
➤ 15 mm Thk.	80	Nil	150	150
➤ 15 to 25 mm	120	80	160	160
➤ 25 to 45 mm	160	100	180	180
➤ 45 to 80 mm	260	150	200	200
➤ 80 to 125 mm	240	200	200	200
➤ 125 to 200 mm	300	200	200	200
➤ 200 to 350 mm	300	250	200	200
➤ 350 mm	300	300	200	200

<b>For Pipe Specimen</b>				
Size*	Carbon Steel Tensile (Rs.)	Carbon Steel Flattening (Rs.)	All Others Tensile (Rs.)	All Others Flattening (Rs.)
Longitudinal				
Upto 150 OD X 6 mm Thk	160	50	160	60
Upto 150 OD X over 6 mm Thk	200	80	200	80
Over 150 OD X 8 mm Thk	200	80	250	100
Over 150 OD X 8-20 mm Thk	250	100	300	140
Transverse (limiting width 65mm)				
Upto 10 mm Thickness	180		200	
10 mm upto 20 mm Thk.	200		250	
Over 20 mm & upto 30 mm Thk.	250		300	

Pipe Specimen - Plugging Charges for Small bore Pipe Rs. 25.00

\*TENSILE SPECIMEN - THESE CHARGES ARE APPLICABLE FOR SAMPLE WIDTHS UPTO 50MM FOR C.S. AND 35 MM FOR S.S. SAMPLES EXTRA CHARGES FOR LARGER WIDTH