

## TECHNICAL SPECIFICATION FOR SOFT LINED MSRL PIPES

MS Pipe	: Confirming to IS 1239 Part – I 1973, Medium duty
Pipe Make	: TATA, JINDAL, NEZONE, UTKARSH
Flange Thickness	: 16 mm drilled to ANSI B 16.5 Class 150 Tolerance in overall length including rubber lining +0.00 mm - 5.00 mm Flanges should be parallel and holes should be collinear
Rubber Lining	: Confirming to IS 4682, Vulcanization should be done in autoclave, joints should be overlapped with bevel joints and lining should be done with calendared sheet
Properties of Rubber	: SOFT NATURAL RUBBER Rubber lining thickness – 4.5 mm Hardness : Shore A 40 $\pm$ 5° Tensile Strength – 150 to 180 Kg/cm <sup>2</sup> Elongation – 450% min. Sp. Gr. : 1.1 to 1.2 Ash Content : 11 % Max Abrasion Resistance – 100 mm <sup>2</sup> max at 10 N as per DIN 53516 Adhesion : 3.6 kg/cm as per IS : 3400 Part V
Test Report	: Test reports of above mentioned properties of rubber should be provided along with each supply. High frequency spark test should be carried out for checking continuity of lining.
Painting	: Pipes should be painted externally including flanges with one coat of Red Oxide Zinc Chromate Primer & two coats of synthetic enamel <b>golden yellow</b> paint of 1 st quality – “BERGER “ MAKE
Inspection	: 1) Final Inspection shall be done at our site 2) It include fabrication of pipes, Hydraulic Pressure testing, Properties of rubber, rubber lining quality by spark testing, visual.
Guarantee	: The MSRL Pipes shall be guaranteed for a period of 12 months from the date of receipt against failure of Rubber lining / MS Pipes.