MATERIAL TESTING LABORATORY LIST OF TESTING EQUIPMENTS AT BDL, KACHANBAGH (Charges are indicative only)

SI No	Description	Specification	Hourly Rate in Rs
1	Universal Testing Machine	Make: Roell+Korthus, Germany, RKM 600 Capacity: 600KN & 10KN, L.C : 0.001 KN & 0.01 KN Cross head speed:0-600mm/min	Rs 1000/-
2	Universal Testing Machine	Make: 50KN UTM INSTRON, USA Capacity: 50 KN & 5KN, L.C: 0.001 KN & 0.01 KN Cross head speed:0-600mm/min	Rs 1000/-
3	Vickers Hardness Tester	Make: George Reicherter, Germany, Brovisor KL2 Max. Load: 10Kg	Rs 750/-
4	Semiauotmatic Vickers/Brinell Hardness Tester	Make: George Reicherter, Germany,Brovikop Max. Load: 187.5 Kg Dual Purpose: Vickers and Brinell	Rs 750/-
5	Metallurgical Microscope	Make:NIKKON, Epipot Magnification: 50,100,200,400,800,1000 X	**
6	Sterero Zoom Microscope	Make: Nisho Optical Company, Japan, STZ 250 Magnification: 0-250X Zoom Ratio: 1:6	**
7	Radography-I	Rich Seifert, Germany, ISOVOLT 420 With DS 1 Control Panel Capacity: 420 KV, Constant Potential Angle: 40°C, Tube Current: 10mA, Focal size: Dual spot 4.5x4.5mm & 1.8x1.8mm, Inherant Filtration: 7mm of Be. With RTR facility	**
8	Radiography-II	Make: ANDREX, 160 with Control Panel Capacity: 160 KV , Constant Potential Angle: 40°C, Tube Current: 10mA, Focal size: Dual spot 1.5x1.5mm & 0 4x0 4mm	**
9	Atomic absorption spectro meter	Make: GBC Avantha, Australia Analysis of elements by flame method	**
10	Carbon & sulpher analyzer	Make: LECO CS 200, USA Analysis of Carbon & Sulpher by combustion method	Rs 1500/- per sample
11	Handheld XRF analyser	Innov -X systems, USA Analysis of elements by X-Ray method	Rs 1500/- for first five elements Rs 500/- for subsequent

12	ounary master of spectrometer	Oxford Instruments Analytical, Germany Analysis of elements by Spark Method	**
13	maddi exi ii x 1	Carestream Health, USA Digital Film	**

INSPECTION FACILITIES AVAILABLE AT BHANUR						
SI No	Description	Specification	Hourly Rate in Rs			
1	Octagon Length Measuring Machine: Used for Length measuring and Diameters of Thread Plug Gauges, Thread Ring Gauges, Plain Plug Gauges, Plain Ring Gauges.	Accuracy:0.3+ L/1000 μm Range:0-450 mm for External 5-440 mm for External	**			
2	CARL ZEISS Universal Measuring Machine with Rotary table (3D-CMM)(UMS - 850):	Accuracy:1.9+ L/300 μm Range: X-600 mm Y-	**			
3	Hydraulic pressure testing equipment (M/S. LEONARD ENGINEERING Pvt. Ltd.,)	Chamber dimension: Length:95 mm, Breadth:65 mm, Width:50 mm Pressure range: 200 to 1500 bars The system is used for testing high pressures both internal and external using water as the testing fluid. It is	**			
4	Hydraulic pressure testing euipment: (M/S SIMPLETEC Automatics PVT . LTD):	Test Chamber dimension: Length :55 mm, Breadth:90 mm, Width:55 mm Pressure range : 400 to 1000 bars	**			
5	Universal Hardness testing machine (M/S WILSON): Used for the inspection of Hardness (Rockwell, Super Rockwell, Vickers & Brinell). Electrochemical Universal testing machine (M/S. MICRO TEST SA-SPAIN):	Max size of the Specimen: Height:200mm Throat:150mm Test load:1-250 Kgf Range of the Specimen sizes: flat specimen: 0 to 7.5mm.	Rs 750/-			
6	Used for the inspection of Ultimate tensile stress, Yield Strength, Elongation of Flat & Round jobs in tension & compression mode	Round specimen : 3.2 to 21.5 mm dia.	**			

NOTE:

- 1) **: The test facility will be provided to the private party by way of quotation based on the extent
- 2) Statutory duties & taxes are extra as applicable