

## Annexure-A

### TEST FACILITIES AT MIDHANI

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Sl.No	Test Facility	Specification
1	Tensile Testing at Room temperature	ASTM E 8
2	Tensile Testing up to <b>500°C</b>	ASTM E 21
3	Tensile Testing from <b>500°C – 1000°C</b>	
4	Impact Testing at Room temperature	ASTM E 23
5	Impact Testing at <b>Subzero Temp.(up to</b>	
	<b>-</b> <b>70°C)</b>	
6	Hardness Testing (BHN/VHN/RA-RB-RC)	ASTM (E10/E92/E18)
7	Micro hardness	ASTM E 384
8	Fracture Toughness Testing (FT) <b>per</b> <b>sample</b>	ASTM E 399 Thickness of sample should 7.8/12.5/20/25mm only
9	Creep testing	ASTM E 150, E 139
10	Stress Rupture	
11	Low Cycle Fatigue (LCF)	ASTM E 606
12	High Cycle fatigue (HCF)	ASTM E 466

13	Micro Structure (Grain Size)	ASTM E-112
14	Micro Structure with Photograph	
15	Macro Structure	ASTM E 381 & A 604 (For Steels) AMS 2380 (For Ti alloys)
16	Inclusion Rating	ASTM E 45 Method – D
17	IGC testing	ASTM A 262 Practice - A
18	Coating Thickness	Microscopic Method
19	Chemical Analysis	Alloying elements and Trace elements in Fe, Ti, Ni, & Co base alloys
20	Gas Analysis	Oxygen, Hydrogen, Nitrogen in Fe, Ti, Ni, & Co base alloys