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ANNEXURE – B

Diaphragm Valve for liquor line

Application : To handle Brine water, Clarified Pregnant liquor, Acidified water of H_2SO_4 (5%) solution, Caustic Solution (1% & 5%) and Eluate (0.15N Suplhuric acid)

“A” Weir Type Rubber lined Diaphragm Valve

Body & Bonnet : Cast Iron to IS210 FG 260 Phosphated & Black epoxy painted

Body Lining : Ebonite Rubber as per IS 4682

Lining Hardness : $80 \pm 5^\circ$ Shore D

Diaphragm Grade : ‘HT’ grade, Neoprene rubber (Hardness 65 ± 5 , Shore A)

End Connection Flanged (Flat Face) Drilled to suit ANSI B 16.5, Class – 150

Stem : SS410 to A276

Stem Bushing : S.G. Iron to IS:1865, 500/7

Thrust Bearing : Steel

Lubrication Fitting : Brass

Hand Wheel : CI to IS210 FG260, rising with travel stop

Compressor : Cast Iron to IS210 FG260

Bolts, Nuts & Studs : IS:1367 Gr.4.6/4.0

Testing Code : EN12266-I / BS 6755 Part – I

Design Code : BS 5156 / EN 13397

Leakage Rate : As per ANSI B16.104 Class VI (100% Leak Tight)

Method of Operation : **Hand wheel**

- Valve must have Yellow ON/OFF Indication and patented lip seal lubrication upto size DN150
- Working Temperature : $50^\circ C$

Operating Pressure : a) 16.0 bar (sizes from 15 mm to 50 mm)

b) 10.0 bar (sizes from 65 mm to 150 mm)

c) 6.0 bar (sizes from 250 mm and above)

Hydro Test Pressure : a) Shell: 24.0 bar, Seat: 17.6 bar (sizes from 15 mm to 50 mm)

b) Shell: 15.0 bar, Seat: 11.0 bar (sizes from 65 mm to 150 mm)

c) Shell: 9.0 bar, Seat: 6.6 bar (sizes from 250 mm above)

Air Seat : 5.00 bar (for all sizes)

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