

Burner Boom Flare Stack Specifications

1.0 TECHNICAL DATA

1.1 MANUFACTURER / SUPPLIER HIMECH

1.2 Length 60' (18.3m)

1.3 Weight 4.465 TON

1.4 Burner Capacity 12000 BPD

1.5 Gas Flaring Capacity 1.8 MCD / Day

1.6 Air Requirement 300 Cu.ft. / Minute

1.7 Working Pressure 1440 psi

1.8 Test Pressure 2175 psi

1.9 MOC of Boom Structure SHS of (91.5 x 91.5) of ASTM A500/IS4923 Yst 310

cross members of 49mm dia of IS 4923 Class C

2.0 DYNAMIC & ENVIRONMENTAL CONDITIONS

2.1 Rolling +/- 7.5o (Max Period 12 sec)

2.2 Pitching +/- 5o (Max Period 12 sec)

2.3 Heaving +/- 1g

2.4 Transversal Wind Speed 160 Km/hr (100mph)

3.0 BURNER HEAD ASSEMBLY

3.1 No of Nozzles 3 Nos covered by metallic cone type shrouds

3.2 Cooling Independent SS water spray line with 20 Spray Nozzles

3.3 Acces Platform for Burner Heads 760mm space from the burner heads with detachable

GV chains

4.0 IGNITION SYSTEM

4.1 Type Independent LPG Pilot Burners

4.2 Control Individual control using 1/2" Ball Valve

4.3 Protection Flame Proof & Weather Proof Enclosure

4.4 Power Requirement 220V 50/60 Hz AC

5.0 PIPING

5.1 Oil Flow Line Sour Service 3" Class 600, 1440psi W.P. Check Valve

5.2 Gas Line 3" Enlarged to 6" at the flare end projecting 1m from the platform

5.3 Air Line 2" Class 600, 1440psi W.P. Check Valve

5.4 End Connection WECO Fig 1502

