

BHEL	Annex-14: Instruments	
HYDERABAD		REV NO: 00
		PAGE 1 OF 1
TECHNICAL DETAILS OF INSTRUMENTS (FGD LUBE OIL SYSTEM) 1. INSTRUMENTATION: 1.1 Pressure & Differential Pressure Indication: a.Gauges shall be bourdon / diaphragm type of material SS316, 100mm dial size. Material of movement shall be SS 304. Superior materials will be considered only if process condition demands. b. Pulsation dampener or glycerin filled case shall be used wherever pulsating pressure occurs in process like pump suction and discharge. c.All pressure gauges shall be equipped with safety vent consisting of rubber grommet at the back or top of housing. d. Pressure gauges shall have over range protection up to 1.3 times maximum pressure scale with out any calibration drift. Instruments which can be exposed to vacuum shall have under range protection. e.Accuracy of all direct connected bourdon gauges shall be guaranteed for 1% of full-scale, and for diaphragm and capsule 1.6% of full-scale. 1.2 Level Indication: a. Level gauge shall be reflex type with metallic construction. b. Level gauge shall cover the entire operating range of tank level. 1.3 Temperature Indication: a. Gauges shall be bimetallic type with 100mm dial size. Material of movement shall be SS 304. Superior materials will be considered only if process condition demands. b. Thermowell shall be used for temperature gauges. c. Gauges shall have over range protection up to 1.3 times maximum temperature scale with out any calibration drift. d. Accuracy shall be guaranteed for 1% of full-scale.		
FORMAT TD-201 REV-00	Prepared: Anshul	Approved: Sunil
REF-DOC	Dated: 02.03.2020	
COPYRIGHT AND CONFIDENTIAL		
The information on this document is the property of BHEL. It must not be used directly or indirectly in any way detrimental to the interest of the company		