

15.4 TECHNICAL STANDARDS AND SPECIFICATIONS INCLUDING SAFETY STANDARDS FOR NATURAL GAS PIPELINES, AMENDMENT REGULATIONS,

-gho REGD. NO. D. L.-33004/99 Che Gazette of -3India EXTRAORDINARY PART III—section 4 PUBLISHED BY AUTHORITY No. 5] 5, 15, 1939 NEW DELHI, FRIDAY, JANUARY 5, 2018/PAUSHA 15, 1939 5 2018 3Tfāfiqq, 2006 (2006 19) 61 gg, 2009, fifāTüt) 2017 fifāT@At) fifiq-q, 2009 l" ft—a-r "q--a-fi-q-Ff 6.4 l" ft-q-Rfr7 a-FT?T.._ 121 GI/2018 (1) 2 THE GAZETTE OF INDIA : EXTRAORDINARY 6.4 1 q "Erq ITT\$T" QfiTfr "q-rg-q-FTT\$T Gi-g-r 14885 4437 [PART III—SEC. 4] i. iii. v. Ifi-g-a-fi--ell-q-\$r pq--Ffi-q fi-fäfrqt) 2008 ft-a-rt Fq-g 14885 4437 fi2513-14v1 8085 3 (q) NZT' "3Fq 3.TIÄQqqa-@" 4 "q-qi-q-q-ur " ft, fr--q-r q-FTT (S.) q-traavr" 1 2 3 4 1 2 3 4 "a-fry-r_5 7477" 1.25X 1.50X 111—73U-g 4] 3 17 "frq•fir q-rg-q" q-r-fi-rr 1.4 -Fr GTTTETT, "éQT7 1.5 ETTIFTTI" 91qt , &TA7-111/4ÄHT./378/17] 11/11/2009 03/09/2012, 14/03/2014 FIT. 01/01/2015 PETROLEUM AND NATURAL GAS REGULATORY BOARD NOTIFICATION New Delhi, the 5th January, 2018 F. No. INFRA/PNGRB/T4S/NGPL/1/2015.—In exercise of the powers conferred by section 61 of the Petroleum and Natural Gas Regulatory Board Act, 2006 (19 of 2006), the Petroleum and Natural Gas Regulatory Board hereby makes the following regulations to amend the Petroleum and Natural Gas Regulatory Board (Technical Standards and Specifications including Safety Standards for Natural Gas Pipelines) Regulations, 2009, namely:— Short title and commencement: 1. (1) These regulations may be called the Petroleum and Natural Gas Regulatory Board (Technical Standards and Specifications including Safety Standards for Natural Gas Pipelines) Amendment Regulations, 2017. (2) They shall come into force on the date of their publication in the Official Gazette

2. In the Petroleum and Natural Gas Regulatory Board (Technical Standards and Specifications including Safety Standards for Natural Gas Pipelines) Regulations, 2009, (i) in Appendix I, serial number 9, under the heading "Critical Infrastructure/Activity/Processes", for the line "Environmental friendly fire extinguishing flooding system for closed space.", the following shall be substituted, namely :- "Environmental friendly fire extinguishing system for closed space.", (ii) in Schedule I D, under the heading "STEEL PIPE", under the sub-heading "Design Factor (f) and Location Classes", after the para 2 beginning with "The minimum wall thickness and ending with shall be 6.4 mm." , the following para shall be added, namely : "In all existing cases where thickness of pipe is less than 6.4 mm for pipe size 4 inch and above, Quantitative Risk Assessment shall be carried out and the risk level shall be reduced to as low as reasonably possible (ALARP)."; (iii) in Schedule 11), after the heading "STEEL PIPE" and before the heading "LOCATON AND LAYOUT OF PIPELINE INSTALLATIONS", the following shall be added, namely "PLASTIC PIPES AND COMPONENTS Requirements for use of Plastic pipes as per IS 14885 or ISO 4437. i. The pressure shall not exceed 7 kg/cm2 in the PE pipeline network. ii. PE pipes shall be laid only in class 3 and class 4 locations. 4 111. THE GAZETTE OF INDIA : EXTRAORDINARY [PART III—SEC. 4] The PE pipeline shall be laid complying with all the provisions of the PNGRB (Technical standards and specifications including safety standards for City or local gas distribution network) Regulations, 2008. Clear battery limit demarcation of both spec. changes shall be done during design/ construction stage. The material shall conform to IS 14885 or ISO 4437 or ASTM D2513-14e1. The fittings shall as per ISO 8085 Part 3." (iv) in Schedule 11), under the heading "PIPELINE SYSTEM AND COMPONENT", under the sub- heading "Other requirements", for para 4, beginning with "Environment friendly Flooding.. and ending with "... no manning the enclosure." , the following shall be substituted, namely : "Environmental friendly fire extinguishing system shall be considered for control rooms, switch gear and battery room, computer rooms of compressor station, terminal station, delivery or tap off stations."; (v) in Schedule ID, under the heading "TESTING AFTER CONSTRUCTION", for the sub-heading "Test Pressure and Duration", in Location Class 1 2 3 4 "Table 5: Minimum Test Pressure Pressure Requirement 1.25x Design Pressure 1.25x Design Pressure 1.40x Design Pressure 1.40x Design Pressure the following shall be substituted, namely :— Location Class 1 2 3 4 Table 5: Minimum Test Pressure Pressure Requirement 1.25x Design Pressure 1.25x Design Pressure 1.50x Design Pressure I .50x Design Pressure (vi) in Schedule 11), under the heading "TESTING AFTER CONSTRUCTION", under the sub-heading, "Above Ground Station Piping", for the words "Station piping shall be tested at minimum test pressure of 1.4 times the design pressure." , the following shall be

substituted, namely :- "Station piping shall be tested at minimum test pressure of 1.5 times the design pressure.". VANDANA SHARMA, secy. [ADVT.-111/4/Exty./378/171 Foot Note: Principal regulations were notified vide No. G.S.R. 808(E), dated 11.11.2009 and amended vide F. No. REGÆ4S/NGPL/1/2012 dated 03.09.2012, F. No. REGIr4S/NGPL/1/2012, dated 14.03.2014, F. No. L-MISC/VIJ1/2007, dated 01.01.2015 Uploaded by Dte. of Printing at Government of India Press, Ring Road, Mayapuri, New Delhi-110064 and Published by the Controller of Publications, Delhi-110054. ALOK KUMAR Digitally signed by ALOK KUMAR Date: 2018.01.09 +05'30'

