



Project :

ROURKELA PP-II EXPANSION (1 x 250MW)

Document No.

PY-AD-4-M087-8315-19

REV

00

Package :

Fire Protection & Detection System

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17.05.17	00	INITIAL SUBMISSION	--	AMIT	MNSR
Date	Rev	Description of Revision	ALT	CHD	APPD
CUSTOMER: 		NTPC-SAIL POWER COMPANY (P) LIMITED			
CONSULTANT 		MECON LIMITED			
CONTRACTOR:  		BHARAT HEAVY ELECTRICALS LTD PROJECT ENGINEERING & SYSTEMS DIVISION, HYDERABAD			
Doc. No	PY-AD-4-M087-8315-19				Rev: 00
PACKAGE	FIRE PROTECTION & DETECTION SYSTEM				
TITLE	DATASHEET OF DELUGE VALVE				
PREPARED BY	SUMANT			14.05.2017	
CHECKED BY	AMIT			16.05.2017	
APPROVED BY	MNSR			17.05.2017	



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING & SYSTEMS DIVISION
HYDERABAD-32

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DELUGE VALVE

1. Type : Differential pressure, quick release, diaphragm operated
2. Type of actuation : Electrically actuated by solenoid valve / Hydraulically actuated by QB
3. Size : 80/100/150 NB
4. Quantity : As per approved BOM
5. Trim type : Wet Trim
6. End Connection : Flanged End as per ANSI B16.5
7. Mounting : 90° pattern inlet to outlet vertical mounting
8. Material of construction
 - a) Body : Cast Iron IS:210 Gr. FG 260
 - b) Cover : Cast Iron IS:210 Gr. FG 260
 - c) Clapper : Ductile Iron to ASTM: A536
 - d) Seat : Bronze IS:318 LTB-II
 - e) Seat Rubber : Neoprene Rubber
 - f) Diaphragm : Neoprene Rubber
 - g) Clamp Ring : Ductile Iron to ASTM: A536
9. Accessories provided with Deluge Valve
 - a) Test Strainer, Drain Valve & NRV : Yes
 - b) Water Motor Gong : Yes
 - c) Isolation Valve at upstream and : Yes
 - d) Instruments such as Pressure Gauge : Yes
10. Whether capable of resetting manually : Yes
11. Markings : Mfg. Trade Name, Year of Mfg. & Sr. No., Size & Model, "UL" Listed
12. Inspection and Testing : As per approved QAP
13. Working pressure : 3.5 to 12 Kg/cm²
14. Hydrostatic test pressure of body : 25 Kg/cm² for 5 mins duration
- 15 Approval : UL listed
- 16 Painting : Total DFT Min. 125 microns
 - a) Primer : Zinc Filled Epoxy
 - b) Finish : P.O Red
- 17 Operation : Automatic / Manual