

[illegible]

NOTES:

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The diagram shows a large rectangle representing a room. Inside, there is a smaller rectangle labeled 'AREA TO BE PROTECTED'. A red line enters from the left, passes through a red oval labeled 'IRD', and then continues as a solid red line to the right, ending at a label 'RHS'. The red line is composed of two segments: one with diagonal hatching and one that is solid. The hatched segment is labeled 'CHP PANEL' and the solid segment is labeled 'CAP'. The red oval is labeled 'IRD'. The area to be protected is labeled 'AREA TO BE PROTECTED'. The red line is labeled 'RHS' at its end. The diagram is surrounded by a grid of small triangles pointing in various directions.

[illegible]

1. THE DETECTION IN MVWS SYSTEM SHALL BE THROUGH LHS CABE, MULTI SENSOR , AS INDICATED IN THE SCHEMATIC OF RESPECTIVE AREA.
2. IN THE EVENT OF FIRE, THE SURROUNDING TEMPERATURE INCREASES. AS THE SURROUNDING TEMPERATURE REACHES THE SET POINT TEMPERATURE, THE DETECTION MEDIA GIVES A SIGNAL TO MAIN FIRE ALARM PANEL. WITH THE RECEIPT OF FIRE SIGNAL, THE MAIN FIRE ALARM PANEL OPENS THE SOLENOID VALVE PLACED ON DELUGE VALVE ASSEMBLY . AS THE SOLENOID VALVE OPENS, THIS CREATES A PRESSURE DROP IN DV CHAMBER.
THE PRESSURE DROP IN UPPER CHAMBER OF DV WILL OPEN THE DELUGE VALVE AND WATER STARTS PROJECTING OUT FROM THE SPRAY NOZZLES. THIS WILL FURTHER CAUSE A DROP IN PRESSURE IN THE SPRAY HEADER FROM WHICH WATER SUPPLY IS TAKEN FOR MVWS SYSTEM. THIS PRESSURE DROP IN THE RING MAIN WILL START THE PUMPS AS EXPLAINED IN DESIGN MEMORANDUM.
3. IT IS ALSO POSSIBLE TO ACTUATE DELUGE VALVE BY OPERATING THE PUSH BUTTON PROVIDED ON LCPDV (LOCAL CONTROL PANEL OF DELUGE VALVE) OR BY OPERATING A MANUAL LEVER PROVIDED ON DELUGE VALVE TRIM ASSEMBLY.
4. PROVISION IS ALSO PROVIDED IN LCPDV(LOCAL CONTROL PANEL OF DELUGE VALVE) FOR THE REMOTE OPERATION OF THE SYSTEM THROUGH PLANT CONTROL SYSTEM.
5. AUDIBLE ANNUNCIATION OF FIRE WILL ALSO BE ACHIEVED THROUGH ALARM GONG PROVIDED ON DELUGE VALVE ASSEMBLY.

CUSTOMER : NTPC-SAIL POWER COMPANY (P) LIMITED

PROJECT : ROURKELA PP-II EXPANSION (1 x 250MW)

CONSULTANT: MECON LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)



ALtered	REV.	DATE	ALtered	SUMANT	REV.	DATE	ALtered	SUMANT
CHD/APPD	02	18.08.17	CHD/APPD	AMT	01	28.03.17	CHD/APPD	AMT
ZONE		REVISED BASED ON CUSTOMER/ MECON COMMENTS. LDO TANK DELETED			ZONE		REVISED BASED ON CUSTOMER/ MECON COMMENTS DATED 10.02.17.	
								
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COMMENT RESPONSE SHEET

NAME OF THE DOCUMENT : COMMENT RESPONSE SHEET FOR P & IDs FOR MVWS SYSTEM (DOC NO:PY-DP-1-M087-8315-03)

NAME OF THE PROJECT : 1x250 MW Rourkela TPP

DOCUMENT NUMBER : PESD/15/ROURKELA/FPS/581 Dated 19.08.2017

Sl No	M/s Mecon / Customer Comments	M/s BHEL replies
1	LHS cable shall be installed in a zizzag manner refer clause no. 6.5.2.2	LHS cable shall be laid in Straight Lines (Not in Zig-Zag) in cable galleries of main plant, coal conveyer and ESP control room as per clause number 3.7(C) of the design basis.
2	LHS cable shall be installed on three sides i.e. one at the top of the conveyor and two at the bottom of the conveyor on either sides.	LHS cable shall be installed on straight manner, one run of lhs cables shall be laid at top of the conveyor and one run at the bottom of the conveyor as per clause number 3.7(C) of the design basis.
3		MVWS protection for the HFO tank deleted as per confirmation from M/S NSPCL.