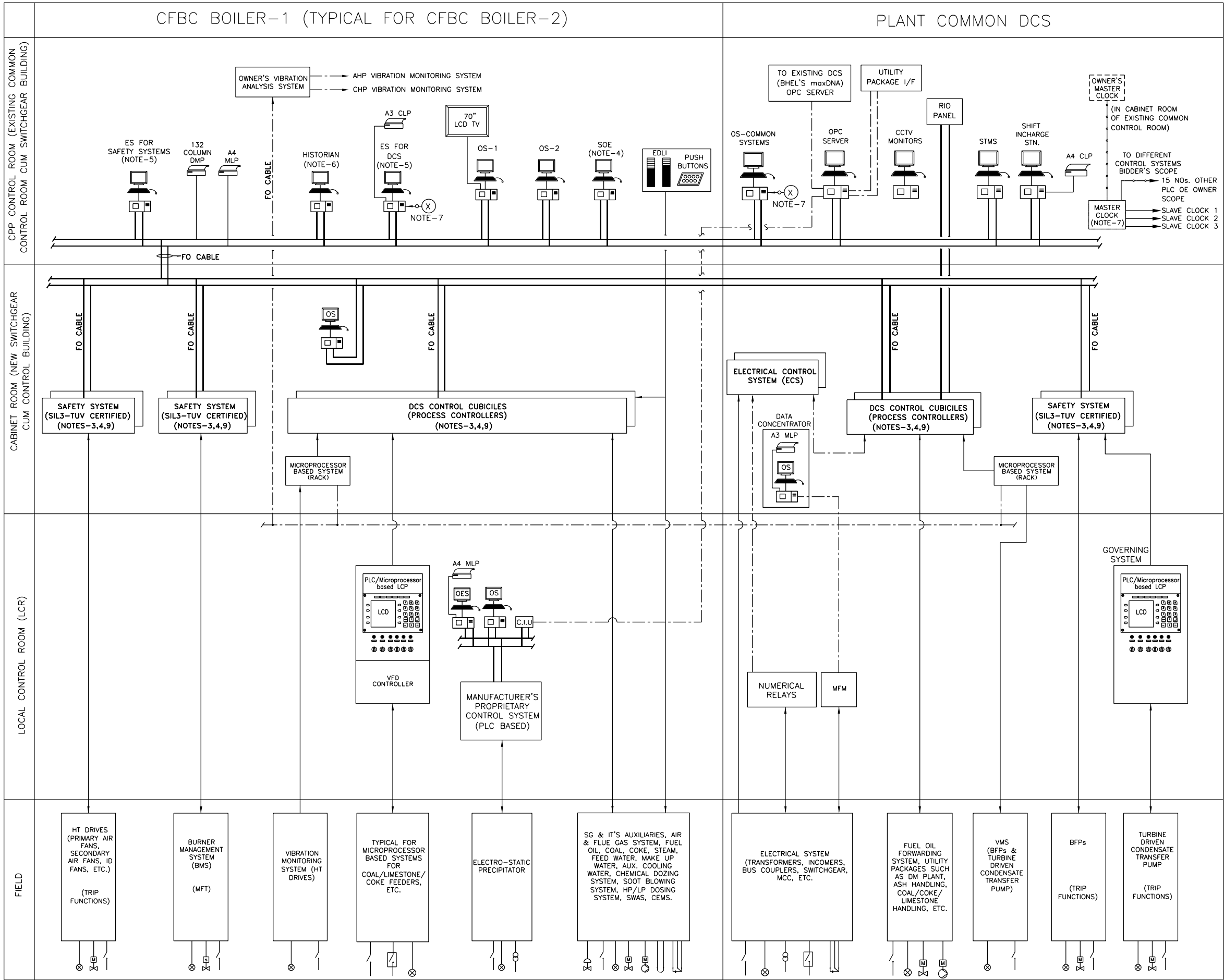
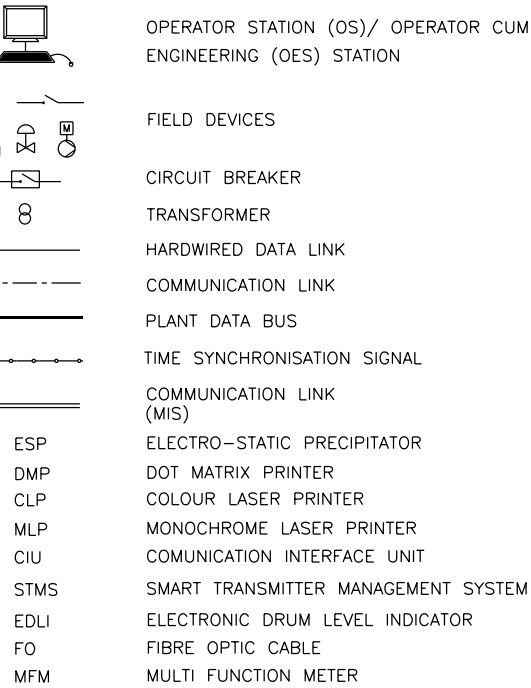




LEGENDS:



NOTES:

- DRAWING INDICATES OVERVIEW OF CONTROL & MONITORING SYSTEM CONFIGURATION WITH DETAILS OF DIFFERENT PLANT CONTROL SYSTEMS AND INTERFACING AMONG THEM..
- THE BOILER PROTECTION (MFT) SYSTEM SHALL BE IMPLEMENTED IN DEDICATED CONTROLLERS OF THE SAFETY SYSTEMS (SIL3-TUV CERTIFIED) AND SHALL COMPLY TO NFPA-85 REQUIREMENTS.
- ALL DCS & SAFETY SYSTEM CONTROLLERS, POWER SUPPLIES, COMMUNICATION CARDS AND COMMUNICATION BUS SHALL BE DUAL REDUNDANT.
- SOE FUNCTION SHALL BE INTEGRAL TO THE DCS. SOE DATA SHALL BE DISTRIBUTED IN ALL THE STATIONS AND IT SHALL BE POSSIBLE TO RETRIEVE THE SAME FROM ANY OF THE STATIONS. HOWEVER, IF THE SYSTEM DESIGN OF THE PROPOSED SYSTEM REQUIRES A DEDICATED SOE STATION, THE SAME SHALL BE PROVIDED IN ADDITION TO THE WORK STATIONS INDICATED IN THE DRAWING.
- CONFIGURATION AND DIAGNOSTICS OF THE PLANT COMMON SYSTEM SHALL BE CARRIED OUT FROM EITHER UNIT-I OR UNIT-II ENGINEERING STATIONS. SIMILARLY FOR COMMON SAFETY SYSTEM (SIL3-TUV CERTIFIED) THESE FUNCTIONS ARE TO BE CARRIED OUT FROM EITHER UNIT-I OR UNIT-II ENGINEERING STATIONS.
- HISTORICAL DATA STORAGE AND RETRIEVAL SYSTEM SHALL BE DISTRIBUTED IN ALL THE STATIONS AND IT SHALL BE POSSIBLE TO RETRIEVE THE SAME FROM ANY OF THE STATIONS. HOWEVER, IF THE SYSTEM DESIGN OF THE PROPOSED DCS CALLS FOR DEDICATED HISTORICAL DATA STORAGE AND RETRIEVAL STATION, THE SAME SHALL BE PROVIDED IN ADDITION TO THE WORK STATIONS INDICATED IN THE DRAWING.
- DCS / PLC / MICROPROCESSOR BASED CONTROL SYSTEMS TO BE TIME SYNCHRONISED WITH MASTER CLOCK SYSTEM.
- THE SYSTEM SHALL BE SO ENGINEERED THAT IT SHALL BE POSSIBLE TO ROUTE PRINTING TASKS FROM ANY OPERATOR STATION TO ANY PRINTER.
- CONTROL SYSTEMS ARE ORGANISED FOR EACH UNIT AND FOR PLANT COMMON SYSTEMS AS SEPARATE AND INDEPENDENT BUT CONNECTED AT HMI NETWORK LEVEL SUCH THAT EVEN IF THE CONTROL SYSTEMS OF ONE UNIT IS UNDER SHUTDOWN, FUNCTIONING OF THE OTHER UNIT AND COMMON CONTROL SYSTEMS ARE NOT AFFECTED.

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ISSUE	REVISIONS					DRN	CLEARED					APPD	DATE
							CHEM	CIVIL	ELEC	I&C	MECH		

EXHIBIT-08

FOR TENDER PURPOSE ONLY

FILE NAME: F043R4.DWG

FILE NAME : 01-7451A-0700_SYS CONFIG.dwg



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

CLIENT : HPCL - MITTAL ENERGY LIMITED

PROJECT : 2 X 300 TPH COAL/PET COKE FIRED STEAM GENERATORS AND AUXILIARIES

DO NOT SCALE | BID PURPOSE ONLY

INSTRUMENTATION AND CONTROL
SYSTEM CONFIGURATION

SCALE: NTS	APPROVED AS	DATE (RO ISSUE)
OFFICE-DISC:DK-IC		DATE (CURRENT ISSUE) 13-08-2014
DRN: CV	DWG NO	ISSUE P2
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TCE FORM NO. 043 R4

SIZE-A3