

DWG 14  
**DETAILS OF TWO PASS BOILER**  
 SCALE: NTS

LEGEND:

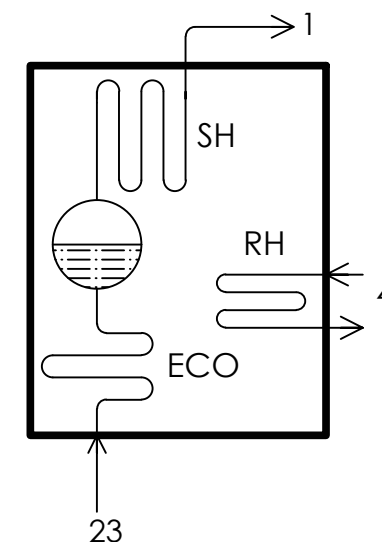
NO.	DESCRIPTION
1	PULVERIZER
2	COAL SILO
3	PLATEN SUPERHEATER
4	SECONDARY SUPERHEATER
5	FINAL SUPERHEATER
6	FINAL REHEATER
7	PRIMARY REHEATER
8	PRIMARY SUPERHEATER
9	ECONOMIZER
10	AIR PREHEATER

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. REFER TO ASME BOILER AND PRESSURE VESSEL CODE FOR GUIDELINES IN THE INSPECTION AND TESTING.
3. STEAM DISCHARGE OUTLETS, EXCEPT SAFETY VALVES SHALL BE EQUIPPED WITH STOP VALVES AT AN ACCESSIBLE POINT IN THE STEAM DELIVERY LINE.
4. PLACEMENT OF STEAM GAUGES MUST ADHERE TO THE REQUIREMENTS STATED IN RULE 1163 OF THE PSME CODE.

BOILER SPECIFICATIONS

FUEL	SUB-BITUMINOUS COAL
CAPACITY	300MW
OPERATING PRESSURE	200 BAR
OPERATING TEMPERATURE	460°C



LEGEND:

CODE	DESCRIPTION
RH	REHEATER
SH	SUPERHEATER
ECO	ECONOMIZER

DWG 15  
**BOILER CONNECTION DIAGRAM**

EQUIPMENT SCHEDULE FOR BOILER

TAG NO.	QTY	MANUFACTURER	MAKE/MODEL	INLET PRESSURE	STEAM TEMP.	CAPACITY	ELECTRICAL		
							f	φ	v
BT-10X	2	GE	TWO PASS BOILER	330 BAR	670 C	705 kg/s	60	3	220



**BatStateU**  
 BATANGAS STATE UNIVERSITY  
 Gov. Pablo Barbon Main Campus II  
 Alangilan, Batangas City  
 MECHANICAL ENGINEERING DEPARTMENT

PROJECT LEADER  
 ENGR. LEMUEL ARNEL A. RIVERA  
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 PRC Reg No.: SECTION: ME - 5302  
 TIN: GROUP NO: 05  
 DATE SUB: JULY 1, 2019

INSTRUCTOR  
 ENGR. ALLAN B. DE VILLA  
 PROFESSIONAL MECHANICAL ENGINEER  
 ASEAN ENGINEER  
 PRC Reg No. PTR No.  
 TIN: Issued on:  
 Issued at:

PROJECT / LOCATION:  
 600 MW COAL-FIRED POWER PLANT  
 LEMERY BATANGAS  
 BatStateU Main Campus 2  
 Alangilan Batangas City

OWNER  
 MPR POWER CORPORATION  
 ENGR. LEMUEL ARNEL A. RIVERA  
 PRESIDENT

PREPARED BY:  
 ENGR. BRYAN MERCADO  
 ENGR. VINCE LEMUEL PANOPIO  
 ENGR. LEMUEL ARNEL RIVERA

No. REVISIONS DATE  
 SHEET CONTENT  
 DETAILS OF BOILER

SHEET NO.  
 A  
 8