





DWG DETAILS OF BOILER FEED PUMP
23 SCALE: NTS

DWG DETAILS OF CONDENSATE FEED PUMP
SCALE: NTS

DWG DETAILS OF CIRCULATING WATER PUMP
25 SCALE: NTS

EQUIPMENT SCHEDULE FOR BOILER FEED PUMP

TAG NO.	QTY	MANUFACTURER	MAKE/MAODEI	ELE	CAL	
IAG NO.		MANUIACIURER	MAKE/MODEL	f	Ф	\ \
BFP-10X	2	FLOWSERVE	MULTI-STAGE DOUBLE CASE BARREL PUMP		3	220

EQUIPMENT SCHEDULE FOR CONDENSATE FEED PUMP

TAG NO.	QTY	MANUFACTURER	MAKE/MODEL	ELE	CAL	
IAG NO.			MAKE/MODEL	f	Ф	٧
CP-10X	2	FLOWSERVE	VERTICAL MULTISTAGE CANNED PUMP	60	3	220

EQUIPMENT SCHEDULE FOR CONDENSATE FEED PUMP

TACNO	○ TV	MANUFACTURER	AAAVE/AAODEI	ELE	CAL	
TAG NO.	QTY		MAKE/MODEL	f	Ф	V
CWP-10X	2	FLOWSERVE	VERTICAL WELL PIT PUMP	60	3	220

OPERATING PARAMETERS

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COMPONENT	SELECTION PARAMETER	SPECIFICATION				
	FLOWS: 1450MP/H	FLOWS: 5220MP/H				
	PRESSURE: 50 B AR	HEAD: 100 M				
BOILER FEED PUMP	TEMPERATURE: 263°C	PRESSURE: UP TO 517 BAR				
	EFFICIENCY:85%	TEMPERATURE RANGE: UP TO 318°C				
		EFFICIENCY: UP TO 85%				
	FLOWS: 1144M9/H	FLOWS: 13600M9/H				
	PRESSURE: 0.05 BAR	HEAD: 1070 M				
CONDENSATE EXTRACTION	TEMPERATURE: 32°C	PRESSURE: UP TO 100 BAR				
1 0/411	EFFICIENCY:85%	TEMPERATURE RANGE: UP TO 230°C				
		EFFICIENCY:85%				
	FLOWS: 5431/19/H	FLOWS: 9085MP/H				
FLUE GAS PUMP	TEMPERATURE: 150°C	HEAD: 100 M				
		TEMPERATURE RANGE: UP TO 150°C				
	FLOWS: 180000M9/H	FLOWS: 181700MP/H				
CIRCULATING WATER PUMP	PRESSURE: UP TO 517 BAR	HEAD: 110 M				
CIRCULATING WATER FUNIF	TEMPERATURE: 30°C	PRESSURE: UP TO 5BAR				
		TEMPERATURE RANGE: UP TO 318°C				

NOTES:

- THE CIRCULATING WATER PUMP WILL DISCHARGE SEAWATER FROM BALAYAN BAY TO THE WATER TREATMENT FACILITY
- 2. THE MATERIAL FOR PIPING FOR COOLING WATER IS MONEL 400 ASTM B163
- 3. THE MATERIALS FOR PIPING FOR THE CONDENSATE IS ASTM A 213 T5, SCHED 40
- 4. THE PUMPS WILL DISCHARGE WATER AT A VELOCITY OF 2m/s AND THE PIPE SIZING WILL BE DETERMINED.

	TATE		PROJECT LEADER		INSTRUCTOR		PROJECT / LOCATION:	OWNER	PREPARED BY:	No.	REVISIONS	DATE		
	55111	PatCtataII					COO MAN CO AL FIDED DOWED DI ANT						SHEET CONTENT	SHEET NO.
		DaiStateU		ARNEL A. RIVERA		R. ALLAN B. DE VILLA	600 MW COAL-FIRED POWER PLANT	MPR POWER	ENGR. BRYAN MERCADO	_				
[₹		BATANGAS STATE UNIVERSITY	MECHANICA	AL ENGINEER	PROFESS	SIONAL MECHANICAL ENGINEER ASEAN ENGINEER	LEMERY BATANGAS	CORPORATION	ENGR. VINCE LEMUEL	\rightarrow	_		DETAILS OF PUMPS	A
18		Gov. Pablo Borbon Main Campus II	PRC Reg No.:	SECTION: ME - 5302	PRC Reg No.	PTR No.	•		PANOPIO				DETAILS OF FUMES	12
1 /	Alangilan, Balangas City	TIN:	GROUP NO: 05	TIN:	Issued on:	BatStateU Main Campus 2	ENGR. LEMUEL ARNEL A. RIVERA PRESIDENT	ENGR. LEMUEL ARNEL		_				
1	***CIPTING	MECHANICAL ENGINEERING DEPARTMENT		DATE SUB: JULY 1 2019		Issued at:	Alangilan Batangas City	I REGIDENT	RIVERA					1