#### LEGEND:

CODE DESCRIPTION

LP LOW PRESSURE TURBINE INTERMEDIATE PRESSURE TURBINE

HP HIGH PRESSURE TURBINE

LEGEND:

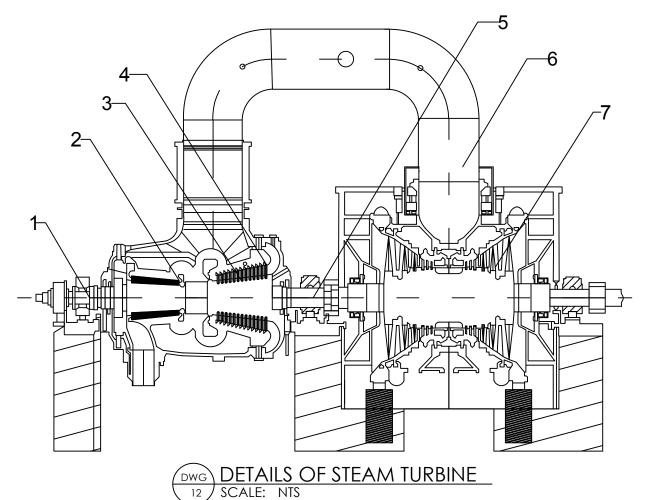
NO. DESCRIPTION

TURNING GEAR HIGH PRESSURE TURBINE PUSH ROD

CROSS OVER PIPE

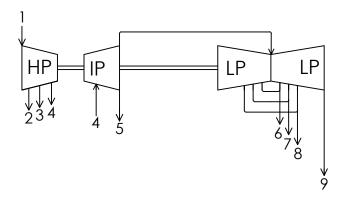
INTERMEDIATE PRESSURE TURBINE 7 LOW PRESSURE TURBINE

**BLADE RING** 



## **EQUIPMENT SCHEDULE FOR STEAM TURBINE**

TAG NO.	QTY	MANUFACTURER	MAKE/MODEL	INLET	STEAM	ELECTRICAL			
				PRESSURE	TEMP.	f	Ф	٧	
ST-10X	2	SIEMENS	SPP SST-5000	260 BAR	600 C	60	3	220	



## TURBINE CONNECTION DIAGRAM DWG 13

#### STEAM TURBINE SPECIFICATIONS

300MW CAPACITY **EFFICIENCY** 53% SPEED 3600 RPM **BLADE LENGTH** 66-95 cm 200 BAR OPERATING PRESSURE OPERATING TEMPERATURE 460°C

## STEAM TURBINE MAINTENANCE SCHEDULE

**SEVERITY** OPERATING HRS. 25000 MINOR 50000 MEDIUM 75000 MINOR 100000 MAJOR

FOR MINOR: VISUAL INSPECTION OF ACCESSIBLE COMPONENTS, FUNCTIONAL CHECKS, ALIGNMENT

FOR MEDIUM: MINOR INSPECTION SCOPE, VALVE OVERHAUL, BEARING INSPECTION, BLADE INSPECTION, AUXILIARY EQUIPMENT INSPECTION, OIL PUMP INSPECTION

FOR MAJOR: MEDIUM INSPECTION SCOPE, OPENING OF TURBINE SECTIONS, ROTOR INSPECTION, WELD INSPECTION, CLEARANCE AND WEARS CHECK, RUN-OUT CHECK, REPLACEMENT OF RELATED PARTS.

# STEAM PIPE SIZING AND OUTLET

DN 12	FROM BOILER (1)					
DN 5	TO FEEDWATER HEATER (2)					
DN 20	TO FEEDWATER HEATER (3)					
DN 20	TO REHEATER (4)					
DN 24	TO FEEDWATER HEATER (5)					
750mm	TO FEEDWATER HEATER (6)					
1300mm	TO FEEDWATER HEATER (7)					
2300mm	TO FEEDWATER HEATER (8)					

### NOTES:

- 1. THE STEAM VELOCITY IS LIMITED TO 100m/s
- 2. THE MATERIALS FOR PIPING IS ASTM A 213 T5, SCHED 40
- PIPING FOR 6,7,8 WILL BE CUSTOM BUILT(INSIDE DIA. IS GIVEN ABOVE)
- THE MATERIAL FOR BOLTS NUTS AND STUDS IS ASTM A 913 B5
- THE MATERIAL FOR WROUGHT FITTINGS IS ASTM A

TATE		PROJECT LEADER	INSTRUCTOR	PROJECT / LOCATION:	OWNER	PREPARED BY:	No.	REVISIONS	DATE	OUEET CONTENT	OUEET NO
62	BatState			ACCULATION OF THE PROPERTY OF						SHEET CONTENT	SHEET NO.
	Dalbialeu	ENGR. LEMUEL ARNEL A. RIVERA	ENGR. ALLAN B. DE V	LA 600 MW COAL-FIRED POWER PLANT	MPR POWER	ENGR. BRYAN MERCADO				1	
	BATANGAS STATE UNIVERSITY	MECHANICAL ENGINEER	PROFESSIONAL MECHANICAL EN	NEER LEMEDY DATANCAS						DETAILS OF STEAM	
	Gov. Pablo Borbon Main Campus II		ASEAN ENGINEER	LEMERY BATANGAS	CORPORATION	ENGR. VINCE LEMUEL					( A )
Can De la Caracteria de	Alanailan, Batanaas City	PRC Reg No.: SECTION: ME - 5302	PRC Reg No. PTR No.		ENGR. LEMUEL ARNEL A. RIVERA	PANOPIO		_		TURBINE	
PHILIPPINIS	MECHANICAL ENGINEERING DEPARTMENT	TIN: GROUP NO: 05	TIN: Issued on:	BatStateU Main Campus 2	PRESIDENT	ENGR. LEMUEL ARNEL				]	
	MECHANICAL ENGINEERING DEPARTMENT	DATE SUB: JULY 1, 2019	Issued at:	Alangilan Batangas City	1	RIVERA					