

 JAYA CM BIRO ENGINEERING	PROJECT TECHNICAL DATA	Nomor : _____
		Halaman : _____
		Tanggal : _____

NAMA PROYEK	: MUARA KARANG
PEMILIK	: PT PLN (Persero)
JENIS PROYEK	: Pembangkit Listrik Tenaga Gas Uap
LOKASI	: PT PJB UP Muara Karang Jl. Pluit Karang Ayu No. 1, Jakarta Utara.
PERIODE PELAKSANAAN	: Agustus 2016 s/d Sekarang

NO	DESCRIPTION			
1	DESIGN SPESIFICATION	VALUE	UNIT	KETERANGAN
	LUAS LAHAN	3,750	Ha	
	BIAYA KONSTRUKSI	3.380.080.398.585,00	Rp	
	OUTPUT CAPACITIES NETT SIMPLE CYCLE	341,30	MW	
	OUTPUT CAPACITIES NETT HRSG	158,70	MW	
	OUTPUT CAPACITIES NETT COMBINED CYCLE	500,00	MW	
	AUXILIARY POWER COMSUMPTION COMBINED CYCLE	12,70	MW	
	OUTPUT GROSS CAPACITIES COMBINED CYCLE	512,70		
	GAS TURBINE FLOW	2.541,00	Ton/Hour	
	STEAM TURBINE CONSUMTION	442,00	Ton/Hour	
	HRSG (Heat Recovery Steam Generator)		MW	
	GAS TURBINE GENERATOR	428,00	MVA	
	STEAM TURBINE GENERATOR		MW	
	TOTAL GENERATOR			
	GAS TURBINE TRANSFORMER			
	STEAM TURBINE TRANSFORMER	215,00	MVA	
	TOTAL TRANSFORMER			
	WTP		M3/Hour	
	WWTP		M3/Hour	
2	ENGINE CONFIGURATION			
	MANUFACTURER			
	MODEL			
	ENGINE TYPE			
	FUEL TYPE			
	UNIT NUMBER			
	COOLING SYSTEM			
	NOMINAL SPEED (RPM)			
	NOMINAL POWER (KW)			
	FLUE FLOW (KG/H)			
	EFFICIENCY			
3	ENGINEE GENERATOR			
	MANUFACTURER			
	MODEL			
	TYPE			
	COLING SYSTEM			
	CLASS OF RATING			
	CAPACITY			
	RATED TERMINAL VOLTAGE(V			
	RATED CURRENT(A)			
	RATED OUTPUT(KVA)			
	RATED POWER (KW)			
	RATED VOLTAGE			
	EFFICIENCY			
4	TURBINE			
	MANUFACTURER			
	MODEL			
	TYPE			
	RATED POWER (MW)			
	UNIT NUMBER			
	MAIN STEAM RATED PRESS. UPSTREAM (Mpa)			
	MAIN STEAM RATED TEMP. UPSTREAM (C)			
	MAIN STEAM RATED FLOW RATE (C)			
	RATED ROTATING SPEED (RPM)			
	MAXIMUM STEAM INPUT VOLUME (t/h)			
	RATED BACK PRESSURE (Kpa)			
	FINAL FEEDWATER TEMPERATUR (C)			
	CALCULATED HEAT CONSUMPTION (TMC			
	CONDITION) (kJ/KW.H)			
5	BOILER			
	MANUFACTURE			
	TYPE			
	MODEL			
	FLOW RATE (t/h)			
	STEAM OUTLET PRESSURE (MPa)			
	STEAM OUTLET TEMPERATURE (C)			
	FEEDWATER TEMPERATURE (C)			
	PRIMARY AIR HOT TEMPERATURE (C)			
	SECONDARY AIR HOT TEMPERATURE (C)			
	FLUE GAS OUTLET TEMPERATURE (C)			
	BOILER GUARANTED HEAT EFFICIENCY			
	(DESIGNED COAL, HHV) (%)			

NO	DESCRIPTION			
6	HRSG	:		
	MANUFACTURE	:		
	MODEL	:		
	TYPE	:		
	GAS FLOW DIRECTION	:		
	TYPE OF EVAPORATOR CIRCULATION	:		
	TYPE OF CONDENSATE DEARATION	:		
	DESIGN TEMPERATURE(C)	:		
	DESIGN PRESSURE(MMH2O)	:		
	DUCT MATERIAL	:		
	TYPE OF INSULATION	:		
	INSULATION MATERIAL & THICKNESS	:		
	MAX MEAN GAS VELOCITY (M/S)	:		
	EFFICIENCY	:		
7	HRSG GENERATOR	:		
	MANUFACTURER	:		
	MODEL	:		
	TYPE	:		
	UNIT	:		
	CAPACITY	:		
	BOILER TYPE	:		
	RATED TERMINAL VOLTAGE(V	:		
	RATED CURRENT(A)	:		
	RATED OUTPUT(KVA)	:		
	MAXIMUM VOLTAGE	:		
	OPERATING VOLTAGE	:		
	RATED SHORT TIME WITHSTAND CURRENT (AC component)	:		
	Phase - neutral	:		
	phase - phase	:		
	phase 3	:		
	CB TYPE	:		
		:		
8	POWER TRANSFORMER (GENERATOR TRANSFORMER ; UNIT AUXILIARY TRANSFORMER ; STATION SERVIS)	:		
	Generator Transformer			
	MANUFACTURE	:		
	MODEL	:		
	TYPE	:		
	RATED CAPACITY	:		
	CLASS AND TYPE OF CORE	:		
	PHASE	:		
	TRANSFORMER RATING AT FULL LOAD (OFAF)	:		
	NOMINAL SYSTEM VOLTAGE (LINE TO LINE) (KV)	:		
	TRANSFORMER CONNECTION(WYE OR DELTA)	:		
	COOLING TYPE	:		
	Auxiliary Transformer	:		
	MANUFACTURE	:		
	MODEL	:		
	TYPE	:		
	RATED CAPACITY	:		
	CLASS AND TYPE OF CORE	:		
	PHASE	:		
	TRANSFORMER RATING AT FULL LOAD (OFAF)	:		
	NOMINAL SYSTEM VOLTAGE (LINE TO LINE) (KV)	:		
	TRANSFORMER CONNECTION(WYE OR DELTA)	:		
	COOLING TYPE	:		
9	HEATING SYSTEM			
	HP HEATER	:		
	MANUFAKTUR	:		
	MODEL	:		
	NUMBER OF HP HEATERS	:		
	OPERATING PRESSURE (MPa)	:		
	OPERATING TEMPERATURE (C)	:		
	MAXIMUM FLOW (T/H)	:		
	LP HEATER	:		
	MANUFAKTUR	:		
	NUMBER OF LP HEATERS	:		
	MODEL	:		
	TYPE	:		
	OPERATING PRESSURE (MPa)	:		
	OPERATING TEMPERATURE (C)	:		
	MAXIMUM FLOW (T/H)	:		
	DEAERATOR	:		
	MANUFAKTUR	:		
	NUMBER OF EQUIPMENT (UNIT)	:		
	WORKING PRESSURE (MPa)	:		
	WORKING TEMPERATURE (C)	:		
	NORMAL OUTPUT (T/H)	:		
	NET WEIGHT OF THE EQUIPMENT (KG)	:		
	FILLING WATER WEIGHT (KG)	:		
	EFFECTIVE VOLUME (M3)	:		

NO	DESCRIPTION			
10	PUMP	:		
	CONDENSATE PUMP	:		
	MANUFAKTUR	:		
	MODEL	:		
	TYPE	:		
	FLOW	:		
	HEAD (Mpa)	:		
	POWER	:		
	VOLTAGE	:		
	SPEED (RPM)	:		
	BOILER FEED PUMP	:		
	MANUFAKTUR	:		
	MODEL	:		
	TYPE MOTOR	:		
	FLOW (T/H)	:		
	SPEED (RPM)	:		
	HEAD (MPa)	:		
	POWER (KW)	:		
	VOLTAGE (KV)	:		
	UNIT NUMBER (UNIT)	:		
	CLOSE COOLING WATER PUMP	:		
	MANUFAKTUR	:		
	MODEL	:		
	TYPE MOTOR	:		
	FLOW (T/H)	:		
	SPEED (RPM)	:		
	HEAD (M)	:		
	POWER (KW)	:		
	VOLTAGE (KV)	:		
	UNIT NUMBER (UNIT)	:		
	VACUUM PUMP	:		
	MANUFAKTUR	:		
	TYPE	:		
	FLOW	:		
	PRESSURE	:		
	CAPACITY (KG3/H)	:		
	EFFICIENCY	:		
	UNIT NUMBER	:		
	TURBINE OVERHEAD CRANE	:		
	MANUFAKTUR	:		
	NUMBER OF EQUIPMENT (UNIT)	:		
	MODEL	:		
	TYPE	:		
	OPERATING PRESSURE (MPa)	:		
	OPERATING TEMPERATURE (C)	:		
	MAXIMUM FLOW (T/H)	:		
	CONDENSER	:		
	MANUFAKTUR	:		
	MODEL	:		
	COOLING SURFACE (M2)	:		
	BACK PRESSURE (MPa)	:		
	DESIGN PRESSURE OF WATER CHAMBER (MPa)	:		
	FLOW OF COOLING WATER (T/H)	:		
	DESIGN TEMP. OF COOLING WATER (C)	:		
	NETT-WEIGHT (T)	:		
	STEAM SIDE (M3)	:		
	MATERIAL OF TUBE	:		
	TOTAL NUMBER OF COOLING PIPE (Pc)	:		
	COOLING PIPE LENGTH (mm)	:		
	FILLED WATER WEIGHT (T)	:		
	ESP	:		
	MANUFAKTUR	:		
	TYPE	:		
	FLOW INLET (M3/S)	:		
	INLET TEMPERATUR (C)	:		
	INTAKE PUMP	:		
	MANUFAKTUR	:		
	MODEL	:		
	TYPE	:		
	FLOW	:		
	PRESSURE	:		
	CAPACITY	:		
	EFFICIENCY	:		
	CONDENSATE PUMP	:		
	MANUFAKTUR	:		
	MODEL	:		
	TYPE	:		
	FLOW	:		
	HEAD (Mpa)	:		
	POWER	:		
	VOLTAGE	:		
	SPEED (RPM)	:		
	BOILER FEED PUMP	:		
	MANUFAKTUR	:		
	MODEL	:		
	TYPE MOTOR	:		
	FLOW (T/H)	:		
	SPEED (RPM)	:		
	HEAD (MPa)	:		

NO	DESCRIPTION				
	POWER (KW)	:			
	VOLTAGE (KV)	:			
	UNIT NUMBER (UNIT)	:			
11	WATER TREATMENT SYSTEM				
	A. ONCE THROUGH SYSTEM (AIR LAUT)				
	B. CLOSE COOLING SYSTEM (AIR TAWAR)				
	WTP				
	SYSTEM	:			
	MANUFAKTUR	:			
	MODEL	:			
	TYPE	:			
	CAPACITY	:			
	WWTP				
	SYSTEM	:			
	MANUFAKTUR	:			
	MODEL	:			
	TYPE	:			
	CAPACITY	:			
	DESALINATION WATER PRODUCTION				
		:			
	DEMINERALIZED WATER PRODUCTION				
		:			
		:			
12	FUEL SYSTEM				
	OIL SYSTEM				
	CAPACITY	:			
	FLOW	:			
	PRESSURE	:			
	CONSUMTION	:			
	COAL SYSTEM				
	CAPACITY	:			
	COAL	:			
	FLY ASH CAPACITY	:			
	BOTTOM ASH CAPACITY	:			
	ASH DISPOSAL AREA	:			
	LIME STONE HANDLING AREA	:			

[illegible]

NO	DESCRIPTION				
		LEAN CONCRETE	:		MM
		ANCHOR BOLT TYPE	:		
		ANCHOR BOLT SIZE	:		
	FOUNDATION WTP / WWTP	DIMENSION	:		MM2
		THICKNESS	:		MM
		CONCRETE GRADE	:		MPA
		REBAR GRADE	:		MPA
		LEAN CONCRETE	:		MM
		ANCHOR BOLT TYPE	:		
		ANCHOR BOLT SIZE	:		
	Peralatan/ mesin yang memerlukan pondasi bisa ditambahkan sesuai kebutuhan di site (lapangan)				
	STACK	HEIGHT OF STACK	:		M
		TYPE OF STACK	:		
		NO OF INNER LINE	:		
	POND				
	a. MAIN POND				
	b. REGULATING POND				
	ROAD PAVEMENT (RIGID PAVEMENT)	FOUNDATION TYPE	:		
		FOUNDATION DIMENSION	:		MM
		FOUNDATION DEPTH	:		M
		PAVEMENT THICKNESS	:		CM
		LEAN CONCRETE THICKNESS	:		CM
		REBAR STEEL GRADE	:		MPA
		CONCRETE GRADE	:		MPA
		CONCRETE SLUMP	:		CM
	STEEL STRUCTURE	AREA BOILER 1# & 2#	:		
		COLUMN STEEL DIMENSION	:		MM
		1st Layer			
		STEEL GRADE (fu)	:		
		ANCHOR BOLT GRADE	:		
		WELD THICKNESS	:		MM
		AREA ESP 1# & 2#			
		COLUMN STEEL DIMENSION	:		MM