



101-U	
DEAERATOR	
DES./OPER.TEMP.	°C 180/140
DES./OPER.PRESS.	kg/cm2G 4.0&F.V/2.65
INSULATION/THICK.	mm NA
MATERIAL	HEATER TANK : 304L SS
	STORAGE TANK: CS
DIMENSION (IDx(TL-TL))	mm HEATER TANK : 2743.2x4572
	STORAGE TANK: 3800x15951.2
CAPACITY	kg/h 550000

104-J/JA	
SEAL PLAN 23 + COOLING PLAN M	
DESIGN CAPACITY	m3/h 583.2
SUCT./DISCH.	kg/cm2G 3.85/136.3
HEAD/NPSHR	m 14.30/-
TYPE OF SEAL	MECH. SEAL
POWER	kW 2745.3
MAT. CASING/IMPELL.	CS/12Cr

104-JT	
TURBINE FOR BFW PUMP	
DES./OPER.TEMP.	°C -385.1
DES./OPER.PRESS.	kg/cm2G -45.9
RATED POWER	kW 3019

- NOTES
- FOR GENERAL NOTES AND SYMBOLS SEE DRAWING 4A, 4B.
 - DELETED.
 - PROVIDE MINIMUM POSSIBLE STRAIGHT RUN 3000mm MINIMUM PRIOR TO FIRST ELBOW FOR RELEASE THE VAPOR MIST UPWARD.
 - CHEMICAL CLEANING CONNECTIONS. LOCATE MIN. DISTANCE FROM BLIND OR FLANGE.
 - DELETED.
 - TURBINE GOES TO MAXIMUM SPEED ON LOSS OF AIR SIGNAL.
 - REFER TO WRITE-UP BY CONTROL SYSTEMS ENGINEERING FOR INTERLOCK DESCRIPTION.
 - FOR STEAM SIDE PIPING SEE DRAWING 13M.
 - DELETED.
 - DELETED.
 - DELETED.
 - ORIFICE TO BE SUPPLIED BY VENDOR.

REV.	DESCRIPTION	DRWN	CHNG	2020	CHNG	APPROV	DATE
1	RE-ISSUED FOR CONSTRUCTION (AFC-3)	TS	ABA	DU	HCB	ANS	14/11/13
2	RE-ISSUED FOR CONSTRUCTION (AFC-2)	TS	ABA	DU	HCB	ANS	25/06/13
3	RE-ISSUED FOR CONSTRUCTION (AFC-1)	TS	ABA	DU	HCB	ANS	10/06/13
4	ISSUED FOR CONSTRUCTION (AFC)	EB	ABA	DU	RM	LI	25/11/12
5	RE-ISSUED FOR APPROVAL (AFD-1)	EB	ABA	DU	RM	LI	25/06/12
6	ISSUED FOR APPROVAL (AFD)	EB	ABA	DU	YSA	NSP	22/06/12
7	ISSUED FOR DETAIL DESIGN (AFD-2)	EB	ABA	JAH	YSA	NSP	14/12/10

PROJECT NAME : KALTIM-5 PROJECT
2500 MTPD AMMONIA AND 3500 MTPD UREA
BONTANG, EAST KALIMANTAN, INDONESIA

CLIENT NAME : **PUPUK KALIMANTAN**
PT. PUPUK KALIMANTAN TIMUR

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ISSUE : 14/Nov/13

CONTRACTOR WORK NUMBER : 10107 / BA096300 / 11-018-01

PIPING & INSTRUMENT FLOW DIAGRAM
DEAERATOR AND BOILER FEED WATER PUMPS

SCALE : DWG. NO. K5-01-E1-PD-13A-T
DOC. NO. K5-01-E1-PD-041-T SHEET 041/073 REV.8