



Document No.

BIAK-DS-10-001-A4

# DATASHEET FOR FIRE PROTECTION & SAFETY EQUIPMENT

REV	:	0
;	Sheet N	No.
Р	age 1	of 2

COMPANY	
---------	--

: PT. PERTAMINA PATRA NIAGA

CONTRACTOR

: PT. PP (PERSERO), Tbk

PROJECT TITLE : Pembangunan Dermaga Kapasitas 50,000 DWT di Fuel

Terminal Biak

LOCATION CONTRACT NO :

: Kabupaten Biak Numfor, Papua Barat, Indonesia.

JOB NO

: 723002

PT. PERTAMINA PATRA NIAGA							
APPROVED							
APPROVED WITH COMMENT							
NOT APPROVED							
DATE	CHECKED	APPROVED					
15/05/2029	Dr 10	N					

0	Issued for Approval	13/03/2024	<b>₩</b> ELT	ABP / SM	SAW	AFM	ATH	AP?	
			PREPARED	CHECKED	*APPRUVED	TREV	TEWEυ	APPROVED	
	DESCRIPTION DATE		PT. PP (Persero), Tbk.			PT. Pertamina Patra Niaga			
RE			PREPA	PREPARED & SUBMITTED BY			REVIEWED & APPROVED BY		





Document No.

BIAK-DS-10-001-A4

# DATASHEET FOR FIRE PROTECTION & SAFETY EQUIPMENT

CONSTR	RUCTION & INV	/ESTMENT
REV	:	0
S	heet N	lo.
D	2002	of 2

## **REVISION CONTROL SHEET**

REV. NO.	DATE	DESCRIPTION
0	13/03/2024	Issued For Approval

## **DISTRIBUTION ORDER**

EXTERNAL ISSUE	PT. PP (Persero) Tbk - INTERNAL ISSUE					
□ PT. PERTAMINA     PATRA NIAGA	⊠ PROJECT MANAGER	☐ LEAD ADMINISTRATION				
	□ ENGINEERING MANAGER     □	□ LEAD SHE				
	☐ CONSTRUCTION MANAGER					
	☑ PROCUREMENT MANAGER					
	☐ PROJECT CONTROL MANAGER					
41	☐ SHE MANAGER					
	☐ QC MANAGER					
	□ LEAD ENGINEERING					
	☐ LEAD PROJECT CONTROL	1 11 11 11				

PERTAMINA PATRA NIAGA



Document No.

REV:0

BIAK-DS-10-001-A4		and the second	FIRE PROTECTION & SAFETY EQUIPMENT					Sheet No. Page 3 of 10		
1.0					F	-IRI	E HYDRANT			
A) G	ENERAL INFORMATION									
1	ITEM DESCRIPTION		1	W	D-WAY FIRE HYDE	RAN	Т			
2	TYPE		T	_	DRY BARREL TYPE		WET BARREL	TYPE		
3	BARREL SIZE		7	./	4 INCH	┢	6 INCH		OTHER	
4	QUANTITY		5	5	UNITS					
5	FLUID HANDLED				RAW WATER	Ī./	SEA WATER		FIRE WATER	
6	CAPACITY		2	. X	250 USGPM (115	_				
7	OPERATING CONDITIO	N	٨	(AN	K. PRESSURE:	13,	9 KG/CM <sup>2</sup> G	TE	EMPERATURE: AMB.	°C
8	LOCATION		П	./	OUTDOOR	Т	INDOOR			
9	ENVIRONMENTAL CON	DITION	$\exists$		HUMID	┢	SANDY		✓ MARINE	
10	CODE AND STANDARDS	S		٠,	UL OR	1./	FM	(NOT	E 2)	
B) F	IRE HYDRANT VALVE AN	ND CONNECTION	IS							
11	INLET SIZE AND TYPE		4	" A	NSI CLASS 150 L	BS	RF WELDED I	NECK FL	ANGED	
12	OUTLET QUANTITY			./	TWO		THREE		OTHER	
13	HOSE CONNECTION		2	P	CS X 2-1/2" WITH	ПΗИ	COUPLING			
14	HYDRANT VALVE MODE	ΞL			OBLIQUE	-/	BIB NOSE			
15	PUMPER CONNECTION				YES	٠,	/ NO			
C) A	CCESSORIES									
16	ACCESSORIES	10		./	CAP & CHAIN				./ BOLT & NUTS	
17		die beer at		./	SS TAG PLATE NO.				-/ FLANGE GASKET	
D) N	ATERIAL, PAINTING, AN	ID TEST								
	MATERIAL DATA	1	1	ΙΥΓ	RANT PILLAR	_	:	BRASS	S OR EQUIVALENT	
19	THE CONTRACTOR OF THE CONTRACT		_		SE COUPLING		·		ZE OR EQUIVALENT	
20			_		PRANT VALVE				S OR EQUIVALENT	
21			_	CAF	And the second s		- :	1	S OR EQUIVALENT	
22			_	CHA		_			LESS STEEL	
_	PAINTING		_			OX	Y PAINT (RAL		OR MARINE ENVIROR	VMENT
	UNIT WEIGHT	71 17 17	_	ИFF						
	TEST & INSPECTION		H	1YC	PROSTATIC TEST,	VIS	SUAL CHECK,	COO, C	coc	
-	OTES									
E) N	OTES  1. MFR: MANUFACTUR	ED STANDARD								
27	VTA: VENDOR TO A									
28	VIA. VENDOR TO A	DVISE				_				
29				_		_				
30										
31										
32										
33										
34										
35										
36		81 In 111								
37						T				
38										
39										
40										
41										
42	11.13.1 11.									be and the
43						T				KENTEL DIS.
44										
45										





Document	40.	PROCESS SAFETY DATASHEET FOR	KLV. U
BIAK-DS-10-001-A4		FIRE PROTECTION & SAFETY EQUIPMENT	Sheet No.
BIAN-03-10-0	01-44	THE TROTESTION & SAFETT EXCIT MENT	Page 4 of 10
2.0		FIREFIGHTING CABINET	
		THE HOTHING GRANE	
A) GENERAL INFO			
1 ITEM DESCRI	IPTION	FIREFIGHTING CABINET	
2 TYPE		WALL HANGED SELF STANDING	
3 QUANTITY		4 SETS	
4 FLUID HANDL	TOTAL ATT	RAW WATER , SEA WATER FIRE WATER	AV.
5 OPERATING	CONDITION	MAX. PRESSURE: 13,9 KG/CM <sup>2</sup> G TEMPERATURE:	AMB. °C
6 LOCATION	THE CONDITION	J OUTDOOR INDOOR	
	NTAL CONDITION	HUMID SANDY , MARINE	
8 CODE AND S	TANDARDS	JUL OR J FM	
B) CABINET FEATU	JRES AND CONTENTS		
9 CABINET FEA	ATURES	DOOR ./ HINGED RIGHT HINGED LEFT	
10		LOCK : LATCH ONLY ./ KEY LOCK	
11		SUPPORT : REQUIRED	
12		VENTILATION: REQUIRED	
13		SIZE : VTA (SUFFICIENT TO STORE ALL CONTENTS	)
14 CABINET CO	NTENTS	FIRE HOSE : 2 PCS (30 METER LENGTH WITH 2-1/2'	" NHT TYPE COUPLING)
15		WATER NOZZLE : 2 PCS (TYPE: FOG/STRAIGHT/SHUT-O	FF; 2-1/2" NHT COUPLING INLET)
16	1157 81	FOAM INDUCTOR : 1 PCS (PORTABLE INDUCTOR 3% AFFI	F TYPE; 2-1/2" NHT COUPLING)
17		FOAM NOZZLE : 1 PCS (TYPE: FOAM BRANCH PIPE; 2-	1/2" NHT COUPLING)
18		FOAM PAIL : 2 PCS (TYPE: 3% AFFF CONCENTRATE	E, CAP. 25 L)
C) ACCESSORIES			
C) ACCESSORIES	.0	DOCTAG BATENO	
19 ACCESSORIE	:5	./ SS TAG PLATE NO BOLT & NUTS	
20		., HOSE RACK AND HANGER	
D) MATERIAL, PAI	NTING, AND TEST		
21 MATERIAL DA	ATA	WATER NOZZLES : ALUMINIUM ALLOY OR E	QUIVALENT
22		FIRE HOSE : RUBBER	
23		HOSE COUPLING : BRASS/ALUMINIUM OR E	QUIVALENT
24		FOAM NOZZLE : ALUMINIUM OR EQUIVAL	ENT
25		FOAM INDUCTOR : BRASS/BRONZE OR EQU	IVALENT
26		CABINET	
27		BODY : STEEL PLATE (EPOXY CO	DATED)
28		HANDLE : STAINLESS STEEL	
29		HINGES : STAINLESS STEEL	
30 PAINTING		RAL 3000	
31 UNIT WEIGHT		MFR	
32 TEST & INSP	ECTION	DIMENSIONAL CHECK, VISUAL CHECK, COO, COC	
E) NOTES			
E) NOTES	U IEA OTUDED OTANDAE		
	IUFACTURER STANDAF	RD	
Company of the Compan	DOR TO ADVISE	CLODE TOWARDS CROUND TO AVOID WATER ACCUMULATION	
	NET ROOF TOP SHALL	SLOPE TOWARDS GROUND TO AVOID WATER ACCUMULATION	
36			
38			
40			
41			
42			
43			
44			
45			

BIAK-DS-10-001-A4  FIRE PROTECTION & SAFETY EQUIPMENT    Sheet   Page 5	PERTAMINA PATRA NIAGA	DATASHEET	CONSTRUCTION & INVESTMENT
BIAK-DS-10-001-A4  FIRE PROTECTION & SAFETY EQUIPMENT  3.0  FIRE FOAM MONITOR  3.0  FIRE FOAM MONITOR  3.1  A) GENERAL INFORMATION  1   ITEM DESCRIPTION   WATER-POWERED FOAM MONITOR   JELF-OSCILLATING   WATER   WANUAL LEVER   MANUAL LEVER   MANUAL LEVER   WATER   JELF-OSCILLATING   WATER   WAT	Document No.		REV:0
Page 5	PIAK DS 10 001 A4		Sheet No.
A) GENERAL INFORMATION  1 ITEM DESCRIPTION WATER-POWERED FOAM MONITOR  1 ITEM DESCRIPTION WATER-POWERED FOAM MONITOR  1 ITEM DESCRIPTION WATER JAMABLE FOR JAMABLE FOR JAMABLE FOR JAMABLE FOR JAMABLE FOR JAMABLE FOR JAMABLE DESCRIPTION JAMABLE DES	BIAK-D3-10-001-A4	TIRE PROTECTION & SAFETT EQUIPMENT	Page 5 of 10
1 ITEM DESCRIPTION	3.0	FIRE FOAM MONITOR	
2	A) GENERAL INFORMATION		
3   J. SINGLE WATERWAY   DOUBLE WATERWAY	1 ITEM DESCRIPTION	WATER-POWERED FOAM MONITOR	
4 QUANTITY 2 SETS  FILUID HANDLED	2 TYPE		NG
FILID HANDLED  RAW WATER  J FOAM SEA WATER  OPERATING CONDITION  MAX. PRESSURE: 13,9 KG/CM°G TEMPERATURE: AMB. °C  TO LOCATION  BENVIRONMENTAL CONDITION  MANUAL  J HORDOR  BENVIRONMENTAL CONDITION  MANUAL  J HORAULC  BENCTIC  CODE AND STANDARDS  J UL OR J PM  MANUAL  J HORAULC  BENCTIC  BENCTIC  BENCTIC  DESCRIPTION  BIFFOAM MONITOR CONNECTIONS AND FEATURES  BY COMMONITOR CONNECTIONS AND FEATURES  SOUGHAITS SIZE AND TYPE  4° ANSI CLASS 150 LBS RF WELDED NECK FLANGED  12 OUTLET SIZE AND TYPE  4° ANSI CLASS 150 LBS RF WELDED NECK FLANGED  12 OUTLET SIZE AND TYPE  4° ANSI CLASS 150 LBS RF WELDED NECK FLANGED  13 MONITOR FLOW RATES  500 GPM (115 M3/H)  MONITOR CAPABILITY  VERTICAL MOVEMENT: -15° TO +75° IN MINIMUM, WITH LOCKING MECHAN HORIZONTAL MOVEMENT: FULL 380° ROTATION  HORIZONTAL MOVEMENT: FULL 380° ROTATION  MONITOR NOZZLE FEATURES  TYPE  ADJUSTABLE FOG/STRAIGHT STREAM, SELF-EDUCTING COMPLETE WITH PICKUE  NOZZLE PERFORMANCE  CAPAGITY  115 M°/H (500 GPM) at 7 KG/CM°G  115 M°/H (500 GPM) at 7 KG/CM°G  115 M°/H (500 GPM) at 7 KG/CM°G  116 CAPAGITY  117 FOAM CONCENTRATE TANK  22 TYPE  FIXED STAINLESS STEEL ATMOSPHERIC TANK  23 CONCENTRATE TYPE  30 AFFF FOAM CONCENTRATE  21 CAPAGITY  2200 LITER  22 TANK APPURTENANCES  LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  DIATERAL	3	J SINGLE WATERWAY DOUBLE WATERWAY	
MAX. PRESSURE: 13.9 KG/CM°G TEMPERATURE: AMB. °C C LOCATION	4 QUANTITY	2 SETS	
7	5 FLUID HANDLED	RAW WATER ./ FOAM SEA WATER FIRE WATER	
B ENVIRONMENTAL CONDITION	6 OPERATING CONDITION	MAX. PRESSURE: 13,9 KG/CM <sup>2</sup> G TEMPERATURE: /	AMB. °C
MANUAL   J   HYDRAULIC   ELECTRIC	7 LOCATION	JOUTDOOR INDOOR	
B) FOAM MONITOR CONNECTIONS AND FEATURES  11 INLET SIZE AND TYPE	8 ENVIRONMENTAL CONDITION	HUMID SANDY / MARINE	
B) FOAM MONITOR CONNECTIONS AND FEATURES  11 INLET SIZE AND TYPE	9 OSCILLATING POWER	MANUAL , HYDRAULIC ELECTRIC	
11 INLET SIZE AND TYPE 4" ANSI CLASS 150 LBS RF WELDED NECK FLANGED  12 OUTLET SIZE AND TYPE 2-1/2" THREADED OR AS PER MFR  13 MONITOR FLOW RATES 500 GPM (115 M3/H)  14 MONITOR CAPABILITY VERTICAL MOVEMENT : -15° TO +75° IN MINIMUM, WITH LOCKING MECHAN HORIZONTAL MOVEMENT : FULL 360° ROTATION  16 FOAM MONITOR NOZZLE FEATURES  17 TYPE ADJUSTABLE FOG/STRAIGHT STREAM, SELF-EDUCTING COMPLETE WITH PICKUI IN INLET 2-1/12" THREADED  19 NOZZLE PERFORMANCE CAPABLE REACH RADIUS MIN. 45 METERS  20 CAPACITY 115 M³/H (500 GPM) at 7 KG/CM³G  21 FOAM CONCENTRATE TANK TYPE TIXED STAINLESS STEEL ATMOSPHERIC TANK  22 TYPE FIXED STAINLESS STEEL ATMOSPHERIC TANK  23 CONCENTRATE TYPE 3% AFFF FOAM CONCENTRATE  24 CAPACITY 2000 LITER LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  27 CACESSORIES  28 ACCESSORIES  29 QUIPMENT TAGNO.	10 CODE AND STANDARDS	JUL OR J FM	
11 INLET SIZE AND TYPE 4" ANSI CLASS 150 LBS RF WELDED NECK FLANGED  12 OUTLET SIZE AND TYPE 2-1/2" THREADED OR AS PER MFR  13 MONITOR FLOW RATES 500 GPM (115 M3/H)  14 MONITOR CAPABILITY VERTICAL MOVEMENT : -15° TO +75° IN MINIMUM, WITH LOCKING MECHAN HORIZONTAL MOVEMENT : FULL 360° ROTATION  16 FOAM MONITOR NOZZLE FEATURES  17 TYPE ADJUSTABLE FOG/STRAIGHT STREAM, SELF-EDUCTING COMPLETE WITH PICKUI IN INLET 2-1/12" THREADED  19 NOZZLE PERFORMANCE CAPABLE REACH RADIUS MIN. 45 METERS  20 CAPACITY 115 M³/H (500 GPM) at 7 KG/CM³G  21 FOAM CONCENTRATE TANK FIXED STAINLESS STEEL ATMOSPHERIC TANK  22 TYPE FIXED STAINLESS STEEL ATMOSPHERIC TANK  23 CONCENTRATE TYPE 3% AFFF FOAM CONCENTRATE  21 CAPACITY 2000 LITER 2000 LITER  22 TANK APPURTENANCES LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  23 ACCESSORIES  24 V QUIPMENT TAGNO.	B) FOAM MONITOR CONNECTIONS AND	D FEATURES	
12 OUTLET SIZE AND TYPE  2-1/2" THREADED OR AS PER MFR  3 MONITOR FLOW RATES  500 GPM (115 M3/H)  VERTICAL MOVEMENT : -15° TO +75° IN MINIMUM, WITH LOCKING MECHAN  MONITOR CAPABILITY  VERTICAL MOVEMENT : -15° TO +75° IN MINIMUM, WITH LOCKING MECHAN  HORIZONTAL MOVEMENT : FULL 360° ROTATION  16 FOAM MONITOR NOZZLE FEATURES  17 TYPE  ADJUSTABLE FOG/STRAIGHT STREAM, SELF-EDUCTING COMPLETE WITH PICKUR  18 INLET  2-1/2" THREADED  CAPABILE REACH RADIUS MIN. 45 METERS  10 CAPACITY  115 M³/H (500 GPM) at 7 KG/CM²G  21 FOAM CONCENTRATE TANK  22 TYPE  FIXED STAINLESS STEEL ATMOSPHERIC TANK  23 CONCENTRATE TYPE  3% AFFF FOAM CONCENTRATE  21 CAPACITY  2000 LITER  22 TANK APPURTENANCES  LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  24 PAINTING, AND TEST  25 MATERIAL DATA  MONITOR BODY  BRASS OR EQUIVALENT  MONITOR BODY  BRASS OR EQUIVALENT  MONITOR BODY  BRASS OR EQUIVALENT  FOAM TANK  STAINLESS STEEL  MONITOR NOZZLE  BRONZE OR EQUIVALENT  FOAM TANK  STAINLESS STEEL  PRIMER AND RED EPOXY PAINT (RAL 3000)  WIT WEIGHT  MFR  10 INFR: MANUFACTURER STANDARD			
13 MONITOR FLOW RATES   500 GPM (115 M3/H)     14 MONITOR CAPABILITY   VERTICAL MOVEMENT : -15° TO +75° IN MINIMUM, WITH LOCKING MECHAN     15			
14 MONITOR CAPABILITY  VERTICAL MOVEMENT : -15° TO +75° IN MINIMUM, WITH LOCKING MECHAN HORIZONTAL MOVEMENT : FULL 360° ROTATION  16 FOAM MONITOR NOZZLE FEATURES  17 TYPE  ADJUSTABLE FOG/STRAIGHT STREAM, SELF-EDUCTING COMPLETE WITH PICKUI P			
HORIZONTAL MOVEMENT: FULL 360° ROTATION  16 FOAM MONITOR NOZZLE FEATURES  17 TYPE  ADJUSTABLE FOG/STRAIGHT STREAM, SELF-EDUCTING COMPLETE WITH PICKUI  18 INLET  2-1/2" THREADED  CAPACITY  115 M³/H (500 GPM) at 7 KG/CM²G  21 FOAM CONCENTRATE TANK  22 TYPE  FIXED STAINLESS STEEL ATMOSPHERIC TANK  23 CONCENTRATE TYPE  33 AFFF FOAM CONCENTRATE  21 CAPACITY  200 LITER  22 TANK APPURTENANCES  LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  24 EQUIPMENT TAGNO.  7 BOLT & NUTS  D) MATERIAL, PAINTING, AND TEST  25 MATERIAL DATA  MONITOR BODY  MONITOR NOZZLE  BRONZE OR EQUIVALENT  FOAM TANK  STAINLESS STEEL  MONITOR NOZZLE  BRONZE OR EQUIVALENT  FOAM TANK  STAINLESS STEEL  BRONZE OR EQUIVALENT  FOAM TANK  BRONZE OR TANK  FOAM			H I OCKING MECHANISM
16 FOAM MONITOR NOZZLE FEATURES 17 TYPE ADJUSTABLE FOG/STRAIGHT STREAM, SELF-EDUCTING COMPLETE WITH PICKUIT 18 INLET 2-1/2" THREADED 2-1/2" TH			TEOORITO MEOFERICIN
TYPE ADJUSTABLE FOG/STRAIGHT STREAM, SELF-EDUCTING COMPLETE WITH PICKUE  18 INLET 2-1/2" THREADED  19 NOZZLE PERFORMANCE CAPABLE REACH RADIUS MIN. 45 METERS  20 CAPACITY 115 M³/H (500 GPM) at 7 KG/CM²G  21 FOAM CONCENTRATE TANK  22 TYPE FIXED STAINLESS STEEL ATMOSPHERIC TANK  23 CONCENTRATE TYPE 3% AFFF FOAM CONCENTRATE  21 CAPACITY 2000 LITER  22 TANK APPURTENANCES LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  23 ACCESSORIES  24 QUIPMENT TAGNO. BOOLT & NUTS  25 MATERIAL, PAINTING, AND TEST  25 MATERIAL, PAINTING, AND TEST  26 MATERIAL DATA MONITOR BODY BRASS OR EQUIVALENT  27 FOAM TANK STAINLESS STEEL  28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000)  29 UNIT WEIGHT MFR  30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES  31 1. MFR: MANUFACTURER STANDARD			
18 INLET 2-1/2" THREADED  19 NOZZLE PERFORMANCE CAPABLE REACH RADIUS MIN. 45 METERS  20 CAPACITY 115 M³/H (500 GPM) at 7 KG/CM²G  21 FOAM CONCENTRATE TANK  22 TYPE FIXED STAINLESS STEEL ATMOSPHERIC TANK  23 CONCENTRATE TYPE 3% AFFF FOAM CONCENTRATE  21 CAPACITY 2000 LITER  22 TANK APPURTENANCES LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  23 ACCESSORIES  24 PQUIPMENT TAG NO.			PLETE WITH PICKUP TUBE
19 NOZZLE PERFORMANCE CAPABLE REACH RADIUS MIN. 45 METERS 20 CAPACITY 115 M³/H (500 GPM) at 7 KG/CM²G 21 FOAM CONCENTRATE TANK 22 TYPE FIXED STAINLESS STEEL ATMOSPHERIC TANK 23 CONCENTRATE TYPE 3% AFFF FOAM CONCENTRATE 21 CAPACITY 2000 LITER 22 TANK APPURTENANCES LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  23 ACCESSORIES  24 PEQUIPMENT TAG NO. BOLT & NUTS 24 PLANGE GASKET  D) MATERIAL, PAINTING, AND TEST 25 MATERIAL DATA MONITOR BODY : BRASS OR EQUIVALENT 26 MONITOR NOZZLE : BRONZE OR EQUIVALENT 27 FOAM TANK : STAINLESS STEEL 28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000) 29 UNIT WEIGHT MFR 30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES 31 1. MFR: MANUFACTURER STANDARD	2012 SA 2018 AND A SA S		LETE WHITHOUGH TOBE
20 CAPACITY 115 M³/H (500 GPM) at 7 KG/CM²G 21 FOAM CONCENTRATE TANK 22 TYPE FIXED STAINLESS STEEL ATMOSPHERIC TANK 23 CONCENTRATE TYPE 3% AFFF FOAM CONCENTRATE 21 CAPACITY 2000 LITER 22 TANK APPURTENANCES LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  23 ACCESSORIES  24			
21 FOAM CONCENTRATE TANK  22 TYPE FIXED STAINLESS STEEL ATMOSPHERIC TANK  23 CONCENTRATE TYPE 3% AFFF FOAM CONCENTRATE  21 CAPACITY 2000 LITER  22 TANK APPURTENANCES LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  23 ACCESSORIES  24 PEQUIPMENT TAG NO. JOBOLT & NUTS  25 MATERIAL, PAINTING, AND TEST  26 MATERIAL DATA MONITOR BODY BRASS OR EQUIVALENT  26 MONITOR NOZZLE BRONZE OR EQUIVALENT  27 FOAM TANK STAINLESS STEEL  28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000)  29 UNIT WEIGHT MFR  30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES  31 1. MFR: MANUFACTURER STANDARD			
TYPE FIXED STAINLESS STEEL ATMOSPHERIC TANK  23 CONCENTRATE TYPE 3% AFFF FOAM CONCENTRATE  21 CAPACITY 2000 LITER  22 TANK APPURTENANCES LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  23 ACCESSORIES  24 FQUIPMENT TAG NO. JBOLT & NUTS  24 FLANGE GASKET  D) MATERIAL, PAINTING, AND TEST  25 MATERIAL DATA MONITOR BODY BRASS OR EQUIVALENT  26 MONITOR NOZZLE BRONZE OR EQUIVALENT  27 FOAM TANK STAINLESS STEEL  28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000)  29 UNIT WEIGHT MFR  30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC		the many factors and an arrangement	
23 CONCENTRATE TYPE 3% AFFF FOAM CONCENTRATE 21 CAPACITY 2000 LITER 22 TANK APPURTENANCES LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  23 ACCESSORIES  24 PLANGE GASKET  D) MATERIAL, PAINTING, AND TEST  25 MATERIAL DATA MONITOR BODY : BRASS OR EQUIVALENT  MONITOR NOZZLE : BRONZE OR EQUIVALENT  26 MONITOR NOZZLE : BRONZE OR EQUIVALENT  27 FOAM TANK : STAINLESS STEEL  28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000)  29 UNIT WEIGHT MFR  30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC		FIXED STAINLESS STEEL ATMOSPHERIC TANK	
21 CAPACITY 22 TANK APPURTENANCES LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTING LUG  C) ACCESSORIES  23 ACCESSORIES  24 PLANGE GASKET  D) MATERIAL, PAINTING, AND TEST  25 MATERIAL DATA MONITOR BODY MONITOR NOZZLE MONITOR NOZZLE BRONZE OR EQUIVALENT  FOAM TANK STAINLESS STEEL PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000)  29 UNIT WEIGHT MFR  10 NOTES  31 1. MFR: MANUFACTURER STANDARD			
C) ACCESSORIES  23 ACCESSORIES  24 PLANGE GASKET  D) MATERIAL, PAINTING, AND TEST  25 MATERIAL DATA MONITOR BODY : BRASS OR EQUIVALENT  26 MONITOR NOZZLE : BRONZE OR EQUIVALENT  27 FOAM TANK : STAINLESS STEEL  28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000)  29 UNIT WEIGHT MFR  30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC	21 CAPACITY	2000 LITER	
23 ACCESSORIES  24 PAINTING, AND TEST  25 MATERIAL DATA  MONITOR BODY  BRASS OR EQUIVALENT  MONITOR NOZZLE  BRONZE OR EQUIVALENT  FOAM TANK  STAINLESS STEEL  PRIMER AND RED EPOXY PAINT (RAL 3000)  UNIT WEIGHT  MFR  10 NOTES  11 MFR: MANUFACTURER STANDARD	22 TANK APPURTENANCES	LEVEL INDICATOR, FILLING CAP, DRAIN CONNECTION, LIFTIN	NG LUG
23 ACCESSORIES  24 PAINTING, AND TEST  25 MATERIAL DATA  MONITOR BODY  BRASS OR EQUIVALENT  MONITOR NOZZLE  BRONZE OR EQUIVALENT  FOAM TANK  STAINLESS STEEL  PRIMER AND RED EPOXY PAINT (RAL 3000)  UNIT WEIGHT  MFR  10 NOTES  11 MFR: MANUFACTURER STANDARD	C) ACCESSORIES		
D) MATERIAL, PAINTING, AND TEST  25 MATERIAL DATA MONITOR BODY : BRASS OR EQUIVALENT  26 MONITOR NOZZLE : BRONZE OR EQUIVALENT  27 FOAM TANK : STAINLESS STEEL  28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000)  29 UNIT WEIGHT MFR  30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES  31 1. MFR: MANUFACTURER STANDARD		Z EOUIPMENT TAG NO.	
25 MATERIAL DATA MONITOR BODY : BRASS OR EQUIVALENT 26 MONITOR NOZZLE : BRONZE OR EQUIVALENT 27 FOAM TANK : STAINLESS STEEL 28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000) 29 UNIT WEIGHT MFR 30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES 31 1. MFR: MANUFACTURER STANDARD			
25 MATERIAL DATA MONITOR BODY : BRASS OR EQUIVALENT 26 MONITOR NOZZLE : BRONZE OR EQUIVALENT 27 FOAM TANK : STAINLESS STEEL 28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000) 29 UNIT WEIGHT MFR 30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES 31 1. MFR: MANUFACTURER STANDARD			
MONITOR NOZZLE : BRONZE OR EQUIVALENT FOAM TANK : STAINLESS STEEL  PRIMER AND RED EPOXY PAINT (RAL 3000)  UNIT WEIGHT MFR TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES  1 1. MFR: MANUFACTURER STANDARD		MONITOR RODY PROMISE TO THE PROMISE	-
FOAM TANK : STAINLESS STEEL  RAINTING PRIMER AND RED EPOXY PAINT (RAL 3000)  UNIT WEIGHT MFR  TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES  1 1. MFR: MANUFACTURER STANDARD	— — — — — — — — — — — — — — — — — — —		The contract
28 PAINTING PRIMER AND RED EPOXY PAINT (RAL 3000) 29 UNIT WEIGHT MFR 30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES 31 1. MFR: MANUFACTURER STANDARD			INI
29 UNIT WEIGHT MFR 30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES 31 1. MFR: MANUFACTURER STANDARD			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
30 TEST & INSPECTION HYDROSTATIC TEST, VISUAL CHECK, COO, COC  E) NOTES  31 1. MFR: MANUFACTURER STANDARD			
E) NOTES  31 1. MFR: MANUFACTURER STANDARD			
31 1. MFR: MANUFACTURER STANDARD	30 TEST & INSPECTION	HIDROSTATIC TEST, VISUAL CHECK, COO, COC	
31 1. MFR: MANUFACTURER STANDARD	E) NOTES		
		ARD	
32   VTA: VENDOR TO ADVISE	32 VTA: VENDOR TO ADVISE		



Document No.

CONSTRUCTION & INVESTMENT	
REV:0	
Sheet No.	
Page 6 of 10	-

BIAK-DS-10-001-A4 FIRE PROTECTION & SAFETY EQUIPMENT				Sheet No. Page 6 of 10
4.0	PORTAB	BLE DRY CHEMICA	L FIRE EXTINGUISHER	
A) GENERAL INFORMATION				
1 ITEM DESCRIPTION	BC DRY CHEM	IICAL EXTINGUISH	IER	
2 QUANTITY	6 UNITS			
3 CODE AND STANDARDS	JUL OR			
0   0002   1112   112   1122	1,752 51.	141		
B) PORTABLE EXTINGUISHER	FEATURES			
4 TYPE	-/ HAND	WHEELED		
5 CLASS	A	./ B	./ C	
6 CAPACITY	9 KG (20 LBS)		· · · · · · · · · · · · · · · · · · ·	
7 RATING	VTA			
8 HORIZONTAL RANGE	VTA			
9 DISCHARGE TIME	VTA			
8 OPERATION METHOD	STORED PRE	SSURE	✓ CARTRIDGE	
9 EXTINGUISHING AGENT	WATER		AMMONIUM PHOSPATE	
10		BICARBONATE	./ SODIUM BICARBONATE	
11 LOCATION INSTALLATIO	N JOUTDOOR	INDOOR		
12 AGENT WEIGHT	MFR			
13 GROSS WEIGHT	MFR			
14 INSTALLATION METHOD	HANGER	[,]	CABINET	
15	PAN/ STAND		WHEEL	
C) ACCESSORIES				
16 ACCESSORIES	WALL HANGE	ER	., CABINET FOR OUTDOOR INSTALLA	TION
17	./ HOSE & NOZ	ZLE	./ INSPECTION TAG	
18	PRESSURE G	AUGE	./ SCREW & FISHER / BOLT & NUT	
19	-/ EQUIPMENT	TAG NO.	./ FIRE EXT. SIGN	
D) MATERIAL, PAINTING, AND				
20 MATERIAL DATA	SHELL		: MFR	
21	HOSE		: RUBBER	
22	CABINET		: STAINLESS STEEL	
23 PAINTING	MFR			
24 UNIT WEIGHT	MFR			
25 TEST & INSPECTION	DIMENSIONAL	CHECK, VISUAL	CHECK, COO, COC	
E) NOTES				
	D OTANDA DO			
26 1. MFR: MANUFACTURES				
27 VTA: VENDOR TO AD	VISE			
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43	(E) (1)			
44				
45				

,	PERTAMINA PATRA NIAGA
Doc	ument No.



PROCESS SAFETY DATASHEET FOR				SHEET FOR		REV:0			
В	BIAK-DS-10-001-A4 FIRE PROTECTION & SAFETY EQUIPMENT						Sheet No.		
			_						Page 7 of 10
5.0				PORTABLE	CO2 FIF	RE	EXTINGUISHER		
A) C	ENERAL INFORMATION		=						
_	ITEM DESCRIPTION		01	EYTINGUISHED		_			
2	QUANTITY	2	CO2 EXTINGUISHER  2 SETS						
3	CODE AND STANDARD		7		FM	_			
			_						
_	ORTABLE EXTINGUISH	ER FEATURES	_		-				
_	TYPE	-/	_	HAND	WHEELE	D			
5	CLASS CAPACITY	4.5	_	KG (10 LBS)	В	_	√ C		
7	RATING	VT				-			
8	HORIZONTAL RANGE	VT							
9	DISCHARGE TIME	VT	-						
8	OPERATION METHOD		_	SELF EXPELLING		Т	CARTRIDGE		
9	EXTINGUISHING AGEN	VT /	,†	CARBON DIOXIDE		T	AMMONIUM PHOSPATE		
10			Ī	POTASSIUM BICARBOI	NATE		SODIUM BICARBONATE		
11	LOCATION INSTALLATI	ION	Ī	OUTDOOR .	INDOOR				
12	AGENT WEIGHT	MF	FR	1					
13	GROSS WEIGHT	MF	FR	1					
14	INSTALLATION METHO	D	_	HANGER	./	_	ABINET		
15				PAN/ STAND		W	HEEL		
C) A	CCESSORIES		_			_			
_	ACCESSORIES		T	WALL HANGER		T	, CABINET FOR OUTDOOR INSTALLA	TION	
17		-/	Ť	HOSE & NOZZLE		-	./ INSPECTION TAG		
18			_	PRESSURE GAUGE		1	./ SCREW & FISHER / BOLT & NUT		
19		-/	⇌	EQUIPMENT TAG NO.		Ī	, FIRE EXT. SIGN		
			_						
_	ATERIAL, PAINTING, A					_			
	MATERIAL DATA		_	ELL		_	: MFR		
21		HC	_			_	: RUBBER : STAINLESS STEEL		
22	PAINTING	MF		BINET		-	: STAINLESS STEEL		
24	UNIT WEIGHT	MF			_				
25	TEST & INSPECTION			ENSIONAL CHECK,	VISUAL	CH	HECK, COO, COC		
						015000			
_	OTES		_						
26	1. MFR: MANUFACTUR	RER STANDARD	_						
27	VTA: VENDOR TO A	ADVISE	_						
28			_						
29			_		_	_			
30			_			-			
31			_			_			
33			-						
34			_						
35			_						
36			_			Т			
37			_						
38			_						
39									
40									
41		FC [37]	_						
42			_						
43			_						
44			_			_			

PERTA/	
--------	--



Document No.

A	BIAK-DS-10-001-A4	Sheet No. Page 8 of 10		
BC DRY CHEMOLAL EXTINGUISHER	5.0	WHEELED DRY CHEM	IICAL FIRE EXTINGUISHER	
DECEMBRY   BE DRY CHEMICAL EXTINGUISHER	) GENERAL INFORMATION			
		BC DRY CHEMICAL EXTING	UISHER	
	NAME OF THE PARTICULAR FEAT			
			7.50	
For the content of				
7			./ C	
MORIZONTAL RANGE				
9   DISCHARGE TIME	.* Inter-contractor			
8   OPERATION METHOD				
SETINGUISHING AGENT			Полотоков	
POTASSIUM BICARBONATE			107/2003(0300)2002(0300)	
11 LOCATION INSTALLATION				
AGENT WEIGHT			ACADOMINA ACOUNT DE OUTUBLE DE VINTANCE DE LA VINTA	
13   GROSS WEIGHT			DOR	
HANGER	SCIARIO CONSTRUENCIA DE LA CONTRUE DE LA CON			
Transpar   Transpar				
TROUTE   T	The state of the s	The second secon		
16   ACCESSORIES	15	PAN/ STAND	./ WHEEL	
16   ACCESSORIES	C) ACCESSORIES			
17		./ TROLLEY	COVERSHEET FOR OUTDOOR I	INSTALLATION
18				
Total   Tota		EAST TO ARREST CONTRACTORS.	The second secon	т
NATERIAL, PAINTING, AND TEST	1.50//6		, FIRE EXT. SIGN	
20 MATERIAL DATA	10	14 Equitient metter		
HOSE	D) MATERIAL, PAINTING, AND TES	ST		
SHEET COVER : VINYL	20 MATERIAL DATA	SHELL		
23 PAINTING MFR 24 UNIT WEIGHT MFR 25 TEST & INSPECTION DIMENSIONAL CHECK, VISUAL CHECK, COO, COC  EN NOTES  26 1. MFR: MANUFACTURER STANDARD  27 VTA: VENDOR TO ADVISE  28 29 30 30 31 31 32 33 33 34 34 34 34 34 34 34 34 34 34 34	21	HOSE	: RUBBER	
24	22	SHEET COVER	: VINYL	
TEST & INSPECTION   DIMENSIONAL CHECK, VISUAL CHECK, COO, COC	23 PAINTING	MFR		20
E) NOTES  26	24 UNIT WEIGHT	1400-70-00-0		
26       1. MFR: MANUFACTURER STANDARD         27       VTA: VENDOR TO ADVISE         28	25 TEST & INSPECTION	DIMENSIONAL CHECK, VISU	JAL CHECK, COO, COC	
26       1. MFR: MANUFACTURER STANDARD         27       VTA: VENDOR TO ADVISE         28	E) NOTES			
27       VTA: VENDOR TO ADVISE         28		TANDARD		
28         29         30         31         32         33         34         35         36         37         38         39         40         41         42         43				
29         30         31         32         33         34         35         36         37         38         39         40         41         42         43				
30         31         32         33         34         35         36         37         38         39         40         41         42         43				
31   32   33   34   35   36   37   38   39   39   40   41   42   43   48   48   48   48   48   48   48				
32   33   34   35   36   37   38   39   40   41   42   43				
33         34         35         36         37         38         39         40         41         42         43				
34         35         36         37         38         39         40         41         42         43				
35       36       37       38       39       40       41       42       43				
36         37         38         39         40         41         42         43				
37   38   39   40   41   42   43   43				
38       39       40       41       42       43				
39 40 41 41 42 43 43 44 45 45 46 47 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48				
40 41 42 43				
41 42 43				
42 43				
43				
44				
	44			

PERTAMINA PATRA NIAGA



Document No. REV					REV:0				
PROCESS SAFETY DATASHEET FOR BIAK-DS-10-001-A4 FIRE PROTECTION & SAFETY EQUIPMENT					Sheet No.				
BIAN-03-10-001-A4									Page 9 of 10
7.0	FIRE BOAT	CON	NECTION AND I	NTE	RNATION	SHIP/SI	но	RE CONNECTION	(ISC)
A) GENERAL INFORMATION	1	_		0.10% E1W					
1 ITEM DESCRIPTION			E BOAT CONNEC						_
2 TYPE		-/		INLE	W		_	3-WAY BREECHING IN	LET
3 BARREL SIZE		1			6 INCH	0 0	L	OTHER	
4 QUANTITY		<u> </u>	SET (FOR FII			& 2		SET (FOR ISC) FIRE WATER	
5 FLUID HANDLED 6 OPERATING CONDITION	DNI.	140		_	SEA WATER 9 KG/CM <sup>2</sup> G		Ļ	Chromotopic Collins and College	°С
6 OPERATING CONDITION 7 LOCATION	JN	_	X. PRESSURE: OUTDOOR	13,	INDOOR		⊏IV	PERATURE: AMB.	-0
8 ENVIRONMENTAL CON	IDITION	1,7	HUMID	┾	SANDY			MARINE	
9 CODE AND STANDARD	The second of th	ME	R (FOR FIRE BOA	TCC	200000000000000000000000000000000000000	SOLAS		Printed State	
9 CODE AND STANDARE		IVII	K (FOR FIRE BOA	1 66	JININ.) & TIVIO	JOLAJ	CII	.II-2 (FOR 13C)	
B) FIRE BOAT CONNECTION									
10 INLET SIZE AND TYPE			CS X 2-1/2" NHT (	COU	PLING				
11 OUTLET SIZE AND TYPE	PE	_	ANSI 150# RF	_			O.		
12 ACCESSORIES			NON-RETURN VALVE	_	RUBBER CA		١	, FLANGE GASKET	
13		./	GATE VALVE		NUTS & WA	SHER			
C) INTERNATIONAL SHIP/S	HORE CONNECTI	ON FE	EATURES						
14 DIMENSIONS				64 N	MM				
15 SLOT IN FLANGE		4 H	IOLES @ DIA. 19	MM					
16 FLANGE THICKNESS		MIN	N. 14.5 MM						
17 CONNECTION		2-1	/2" WITH NHT COL	JPLI	NG ADAPTO	R			
18 STORAGE		FLA	AME RETARDANT	BOX					
19 ACCESSORIES		_	SS LOCK & HINGES						
20		./	SS BOLT & NUT						
D) MATERIAL, PAINTING, A	ND TEST								
21 MATERIAL DATA		FIR	E BOAT CONNEC	TION	١ :	BRAS	S	OR EQUIVALENT	
22		ISC			:	BRAS	S	OR EQUIVALENT	
23		CA	P		:	RUBB	ER	OR EQUIVALENT	
24		CH	AIN		:	STAIN	NLE	SS STEEL	
25 PAINTING		MF	R						
26 UNIT WEIGHT		MF	R						11.2
27 TEST & INSPECTION		VIS	SUAL CHECK, COC	), C	OC				
E) NOTES									
28 1. MFR: MANUFACTUR	RER STANDARD								
29 VTA: VENDOR TO A	New York Control								
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41		_							
42				-					
43	The state of the s								
44									
45									

PERTAMINA PATRA NIAGA



Document No. BIAK-DS-10-001-A4	PROCESS SAFETY DATASHEET FOR								
8.0		EYEWASH &	SAFETY SI	HOWER					
A) GENERAL INFORMATION									
1 ITEM DESCRIPTION		EYEWASH AND SAFETY S	HOWER		THE STATE OF				
2 TYPE		-/ PLUMBED	PORTABLE						
3 QUANTITY		1 SET							
4 FLUID HANDLED		-/ SERVICE WATER	SEA WATER	FIRE WATER					
5 OPERATING CONDITION	V	MAX. PRESSURE: 4	KG/CM <sup>2</sup> G	TEMPERATURE: AMB.	°C				
6 LOCATION			INDOOR						
7 ENVIRONMENTAL CON	NOITION		SANDY	./ MARINE					
8 CODE AND STANDARDS	3	-, ANSI/ISEA Z358.1 .,	AS 4775-2007	√ MFR					
B) EYEWASH & SAFETY SHO	WER FEATUR	ES AND CONNECTIONS							
	DURATION	15 MINUTES							
	SHOWER	20 USGPM (4.54 M3/H)							
	EYEWASH	0.4 USGPM (0.09 M3/H)							
12 INLET SIZE AND TYPE		2" ASME B16.5, 150# RF							
0) 40050000150									
C) ACCESSORIES		PULLROD WITH HANDLE							
13 ACCESSORIES		FLOW REGULATOR							
14		PUSH HANDLE & FOOT PED	)AI						
16		DUST COVER							
17		DRAIN							
18		-/ SCALD PROTECTION BLEET	VALVE						
19		-/ EQUIPMENT TAG PLATE							
D) MATERIAL, PAINTING, AN 20 MATERIAL DATA	ID TEST	I DOW		STAINLESS STEEL					
		BOWL PIPING		STAINLESS STEEL STAINLESS STEEL					
21		SHOWER	:	STAINLESS STEEL					
22 23		OTHER		PLASTIC/PVC					
24 PAINTING		MFR		TEACHOT VO					
25 UNIT WEIGHT		MFR							
26 TEST & INSPECTION		VISUAL CHECK, COO, CO	С						
E) NOTES									
27 1. MFR: MANUFACTURE									
28 VTA: VENDOR TO A	DVISE								
29									
30									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41				T-O					
42	Mg , T								
43					Mark Mark Mark				
44									
45									