

## FLASH POINT EQUIPMENTS PVT. LTD.

#### **COMPANY PROFILE & TRACK RECORD**











# **COMPANY PROFILE**

- Established in 1993.
  - Turnover (2023-24) : Rs. 350 MILLION
- Exports comprise over 60% of turnover
- *EMPLOYEE STRENGTH : 150*
- Manufacturing Location : 60000 Sq. Ft. Facility At
   Chakan Near Pune + 10000 sq. ft. facility at Bhosari , Pune
   Maharashtra, INDIA (160 km from Mumbai Port)







# Vision, Mission, Philosophy.....

#### Vision

• To be a Leading Global Solution Provider In The Field Of Liquid & Gas Conditioning .

#### Mission

- Continuous product innovation & improvement to achieve total engineering capability
- adequate protection to flow components , pumps , Compressors, turbines & valves allows them to achieve the committed performance efficiencies & accuracies.
- value for money to our customer and create wealth for our shareholders and employees.

#### Philosophy

- Excellence as a way of life forward.
- Customer is supreme and no stone will be left unturned in our endeavor to meet their needs.
- Fair, equitable, transparent dealings with all our customers, employees , suppliers and service providers.
- Commitment to safeguard the safety and health of all our employees and those who come in contact with our equipment along with commitment to protect the environment & mother nature.







## FIELD OF APPLICATION & EXPERTISE

- Pipeline accessories for protection & performance enhancement of flow-meters, compressors, pumps, turbines and other rotating equipment in Oil & Gas, Power & process industries.
- Clean and dry gas feed to Flow Meters ,compressors & turbines.
- Air & Dirt removal from liquid petroleum metering systems .
- Quick opening Vessel Closures for safe and fast access to vessel internals
- Safe & efficient heating of Natural Gas for city-gate stations.
- Pressure Vessels and components/ systems for Nuclear & Conventional Power Plants.
- Over 25 years of dedicated service to the Oil & Gas industry.









60000 sq. ft. covered manufacturing facility at MIDC ,Chakan ( about 150km from Mumbai Port ,Near Pune , INDIA )

- OH Cranes, 500 KVA power, full back-up generators, In-house shot blast & paint booth & RT enclosure .
- Two manufacturing bays 56 m long x
   20m wide x 12m High & 2
   manufacturing bays 24m long x 8m wide
   x 8m high
- Automatic welding and vessel
   Manipulating facilities
- CMC Turning centres
- Capable of handling large vessels and skids up to 50 tons weight.
- ASME "U", "U2" certified shop .













## WELDING & SPECIAL PRODUCTION FACILITIES

- Welding column & boom 4.0m x 4.0m for SAW & FCAW welding
- Standalone pendulum weave welders for automatic FCAW
- Hydraulic 3-Roll Plate bending machine
   56 mm (T) x 2500 mm (W)
- Welding rotators 5T to 60 T capacity
- Hydraulic pipe coiling machine upto 2" x Sch.160
- Hydraulic testing pumps capable of generating pressures upto 15000 psig
- Hydraulic bolt tensioners M24 to M52.
- Orbital welding & cutting systems.
- CNC Plasma plate cutting .

















# SHOP CERTIFICATIONS

ASME "U", "U2-valid until Dec. 2026

- National Board Of Boiler & Pressure Vessels "NB" Certification – V Dec. 2026
- INDIAN BOILER REGULATIONS (IBR)
- Certified to ISO 9001: 2015 by TUV
- Certified to ISO 14001-2015 by TUV
- Certified to OSHAS 45001-2018 TUV
- (All valid until 2027)
- ZED GOLD CERTIFICATE ( GOV. OF INDIA)
- Certified by EIL, MECON, NPCIL, GSPL TOYO
- Approved by major Oil & Gas consultants all over the world.







ASH P EQUIPMENTS PVT LTD Filtration | Separation | Air Elimination Metering Skids for Oil & Gas

(12) (S) r Pi



# SHOP CERTIFICATIONS

- **EIL Shop Certification for QOC's** & Basket Filters valid until 2026
- CE/PED Assessment for QOC's certified by DNV
- Shop Certification by MECON,
- ADNOC approval for QOC's & **Basket Strainers**
- Shop Certification by NPCIL
- Shop Certification by GSPL
- Shop Certification by TOYO







EQUIPMENTS PVT. LTD. Filtration Separation Air Elimination Metering Skids for Oil & Gas

ASH POIN





Bankan -	
Co Marine	
Elumenter and	
Reaction in the second second	
The second secon	
BROLDWEIT	Contract of the local division of the local
25 Automat Manadata	-



	6
	TO
Starten an	ENGINE
S	

YO

D	NOC
	100



# **PRODUCT CERTIFICATION CODES**

- ASME Sec.8 Div.1 "U" & "U2"
- Indian Boiler Regulations (IBR )
- CE/PED Certification.
- Malaysian DOSH Certification.
- NR-13 (Brazilian National Code)
- AS 1210 (Australian Code)
- ABS Class Certification
- DnV Class Certification
- ARH Certification (Algerian Hydrocarbon Regulatory Auth.)

HSB	Global	Standards
10000	Contra in	interface and

And Andrew Street Billionships

Cartificado de Confermidade com HR-13 para Promisión de Registro de Veso de Preside artifican of confermance with KH-13 for Presiden Name Registration ( ay Res

Data dans: 14 de Março (a. 2071

Local in Instatuție Plan Localus; sin charado (se cheren). Reference discoleranțe Flan Port Focientes Pd Lii.

Praincardo Mandelanez Frein Control paperent Process Planka 111, Bactor T, PCNTDA Industrial Area, Bhosart, Pare - AT1828, Indu Onders de fabricação es. (Aut 662 FPE 882

Description de vasar de presente (Pressure Vesser Scottighter) Un Vasor de preseito las Fadersande Rosant Basiner ette Als Elemenanes et 400 CL 100 Alsocarios Mananag Trait Represent Of Codes, con demonstes principals de 400 mm de máximum et 2001 mm de attente.

Normerin de Stitle de Falcharde (Namfalture's Safal Norman) 179 803/471 a junit 1795 803/473

			Aphines
To search 1997 Interior, Solid States	7.11	And a state of the	100
Extentile-Pro/Denickt-No.1	the manufacture	EV01 P 2006 09 81	
and states and states and		Arming	Personal Diversion of
M. Sellen Pile		-	
Faith Front Elastements Prol Ltd			
Bronart, Furs			
nde			
AGP DORE DOM: 10 - HOUSE			
tange dilation Television			
	Il motoriam	C managed 1	1 - 200 Add 10 10 404 8 mar
1 mail (1 mill)			
Ort	Thight Care Statistics	C06470.4"H" AND	
manager there are not	STITUTE STREET	e to Parter	
Model - 400 - 402	40.00		
			a suprat
Red course		1	1
teria anatomasi	1001	1	
to be at the set of th	-0-m		
COLUMN TWO IS NOT	-		
telles at an	101.00		
instantion + mi			
	and a dealer such but		Contractor and the second
the standard and and an and an an and an	all dependences and his	and the second	111111
	6	-	Section 1

		001	A star was
Certificate	of Conformity	Lloyda	
Passed Support Station	ter and the second second		
press ways wants			
States States	and the second	- Parts Print and	and the second
1000	South of the second	the Designation of the	
	an and the local sector of the sector of		the manual
Sectors.			this ways
Salys Md			
Printer Printer of the	Contraction of the second s		
100 at 100 at 1 - 1000 2	A DESCRIPTION OF A DESC	miner the terminer whether	the state of the s
ing mark		Section in the local state in the section in	allow at the second sec
	These and the second seco	Barry and Communication ( ) and a descently speed with the Define Of a Definition of the over Communication ( ) and descent and the Communication ( ) and a Communication ( ) and a second second of the Communication ( ) and a Communication ( )	
		Andreaster ( Sachard & An 1991) 1971	
CE	Line we		
	and an all	The local data in the local da	T.
We		Distant Manager - 1.07	
AMERICAN B	UREAU OF SHIPPING	100 fair () from 100 million 1 million	a fame
And	Party Street Street and Street	CONTRACTOR AND DE LOS OF THE OWNER OF THE OWNER	
		LANCE CONTRACTOR OF A PARTY OF A	
And Address of the Ad		artiki pila minina manifesi ina artiti	antes a
and the second second		+#T	
and Same	Concessi Rame Brane 1 Tonnand Balan Brane B	Tarrow Fast Part Reament Pol Line	All man
Bandwine Surgers Tara	Print Barrier in Annual to proved barrier in research in	Address Christian (Calence)	Franci Burrister Intervente
Public Loope	VALUES AND A TAVANTO AND TO COLOR AND A	Water Fals 41025	Can Arger Hillin
Andre London Martinette Frank Annote Martinette Frank Charlos Annotes	VAL-GREEN AN ALL WATER A REPORT OF A VEHICLE OF A VEHICLE AND A VEHICLE	Same Prover 1925	Statement Property in the local division of
	PAG-Set (B-st-Sacrastine Co-ch-ch-ch-ch-ch- to-show) (SAARA) (Berning Birter Basel, a pergan- site of the sacrastic Co-ch-ch-ch- ed the sacrastic Co-ch-ch-ch-ch-ch- ed the sacrastic Co-ch-ch-ch-ch-ch-ch- ed the sacrastic Co-ch-ch-ch-ch-ch-ch- ed the sacrastic Co-ch-ch-ch-ch-ch-ch- ed the sacrastic Co-ch-ch-ch-ch-ch-ch-ch- ed the sacrastic Co-ch-ch-ch-ch-ch-ch-ch-ch-ch- ed the sacrastic Co-ch-ch-ch-ch-ch-ch-ch-ch-ch-ch- ed the sacrastic Co-ch-ch-ch-ch-ch-ch-ch-ch-ch-ch-ch-ch-ch-	Martin Part (1986)	
Andri Sandar Martinella France Annore Martinella France Charlon Martinel Martinella (Carlon III) Martinella (Carlon III) Martinella (Carlon III) Martinella (Carlon III) Martinella (Carlon III) Martinella (Carlon III)	Yel-ber all an Augusteria and - Colline Art Lat Destruction and the second second Bert Constant and and Well-bert Second and Second second second restart and second second second second second The Second Second Second Second Second Second The Second Seco	State Port 1935	1 (approx 20)
	TAD-Loss als an increasing a rate or contract the Development of the rate of the rate of the Ministry of the rate of the rate of the of the second second of the rate of the increasing into the second	Alguer Por Friday	5 (1999) 5 (1999) 5 (1999) 5 (1999) 5 (1999) 5 (1999)
Andri Sandar Martinella France Annore Martinella France Charlon Martinel Martinella (Carlon III) Martinella (Carlon III) Martinella (Carlon III) Martinella (Carlon III) Martinella (Carlon III) Martinella (Carlon III)	Produce da la cuella esta con escala desta Distança función de esta cuelta de la cuelta de esta cuelta de la cuelta de esta cuelta de la cuelta de la cuelta de la cuelta de presenta de la cuelta de la cuelta de la cuelta de presenta de la cuelta de la cuelta de la cuelta de presenta de la cuelta de la cuelta del la cuelta de presenta de la cuelta de la cuelta de la cuelta de presenta de la cuelta de la cuelta de la cuelta del la cuelta de presenta de la cuelta del la cuelta de la cuelta de presenta de la cuelta de la cuelta del la cuelta de presenta de la cuelta de la cuelta de la cuelta de presenta de la cuelta del presenta de presenta del presenta del presenta del presenta del presenta del presenta del presenta del presenta del presenta de presenta del presenta del presen	Alguer Por Friday	5 (1999) 5 (1999) 5 (1999) 5 (1999) 5 (1999) 5 (1999)
And Lorder And Context Annual Market Context Char Andread Market Context Char Andread Market Context Andread Charles Market Ch	Yel-ber all an Augusteria and - Colline Art Lat Destruction and the second second Bert Constant and and Well-bert Second and Second second second restart and second second second second second The Second Second Second Second Second Second The Second Seco	Musice Sea 411005 Musice Sea 41	a terrer a a terrer a
Full Looks Sector Front Agent Sector Control Agent Sector Control Agent Sector Control Agent Sector Control Sector Control Sector Control Sector Sector Sector Sector Sector Sector	THE AREA OF A VEHICLE AND A VE	Alguer Por Friday	
Rad Lanks weeks I saw Arris Marken Van Kan Kalana Marken Van Kalana Marken Van Kalana Marken Van Kalana Marken Van Kalana Marken	THE AREA OF A VEHICLE AND A VE	Andream Factor Frank	in transmission The Second Second Second Second Second Second S
And Sandar Martin Landon Sandar Martin Landon Sandar Martin Landon Sandar Martin Landon Martin Landon Mar	The bear share in a part of the the the the of the	Hannin Rock Hilds Hannin Rock Hills Hannin Rock H	in transmission in energy and the second based of the second seco
hardware hardwa	The device share in a work of the tot-both of tot-	Hannin Rock Hilds Hannin Rock Hills Hannin Rock H	E frances 20 and 20 and 20 and 20 and 20 and 20 and 20 and 20 and 20 and 20 and 20
And Control of the Section of the Se		Hannin Rock Hilds Hannin Rock Hills Hannin Rock H	in transmission in the second second second second second as the second second second in the second is the second second second in the second second second second second is the second second second second in the second second second second is the second second second second in the second second second second is the second second second second second is the second seco
And the set of the set	The device and any other device of a second	March 1995	E transmort II Transmort Anno Anno Anno Anno Marine Anno Anno Anno Anno Anno Marine Anno An
And Control of the Source of t	The device starts and well and other starts and the device start and well and the device start and the device star	An and a set of the se	E landour II Transitione II Service All Service All S
And the set of the set		An and a second	E landour II Transitione II Service All Service All S
And Look And Lo		Annual Control of the second s	E landour II Transitione II Service All Service All S
And Look And Lo		An and a second	E landour II Transitione II Service All Service All S
And Canada And Ca		An and a second	
And Canada And Ca		Maria Novi 1925 Maria Santa Santa Maria Santa Santa Maria Santa Santa Maria Santa Santa Maria Santa Santa Santa Santa Santa Santa Santa Maria Santa Santa Santa Santa Santa Santa Maria Santa Santa Santa Santa Santa Santa Santa Santa Santa Santa Maria Santa	E landour II Transitione II Service All Service All S
And Control of Control		Marian Kine of 100- instances in the second	





EQUIPMENTS PVT. LTD. | Filtration | Separation | Air Elimination | Metering Skids for Oil & Gas





#### **DESIGN, ANALYSIS & PRODUCT TESTING**

• We use the latest version of design software "PV ELITE" for pressure vessel & heat exchanger design to ASME Sec. VIII Div. 1 & 2, EN13445, BS 5500 & AS-1210

•SOLIDWORKS 2020 to create, edit and visualize 3-D Models

•We have developed in-house design calculations for Quick Opening Closures & Air Vents .

•Critically stressed components like Quick opening closures (QOC's) & Nozzle joints are analyzed by ANSYS Finite Element software .

•CFD & 3-D Modeling is used to optimize product designs for specific applications.

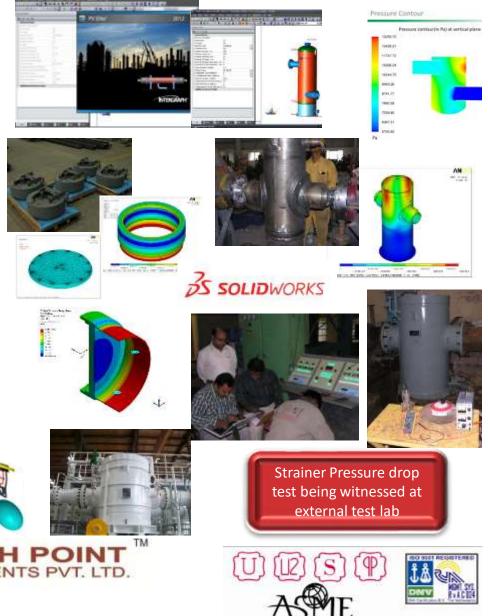
• Entire range of Strainers are pressure drop type tested at external flow test facilities .

• All Air Vents are function tested at o own test bench before dispatch .

•Gas Separators flow tested at NML .







#### **PRODUCT QUALITY & SERVICE**

• We realize the importance of product safety and reliability in the hazardous Oil & Gas areas and strive to build safety and reliability into our products conforming to the highest industry standards.

• Our engineers are fully conversant with ASME & EN codes and constantly check raw material, welding , in-process and final product to ensure conformity to these codes.

•Sound design and stringent stage inspection & testing ensures safety and reliability through the lifetime operation of our products .

•A rapid action service team ensures that any problems are solved and innovative solutions created to meet the unique needs of our customers .

•Our fingers are constantly reading the pulse of the Oil & Gas industry's ever changing needs.

























#### PRODUCT FINISH, SURFACE TREATMENT &

# • Our factory has world class shot blasting and paint application facilities .

•Our coating procedures and applicators are qualified by NACE Level 2 certified coating inspectors

•Every process is rigorously checked to achieve perfection ......The coating application has to be nothing less than perfect and we take this very seriously indeed..



Coating application on Gas Filters in the Paint booth

IFEX TAPE RECORDS FOR 2046

Paratus PRESS-G-PR.M." H



Strainers emerging from Shot Blast Chamber

C JOHN THE

JOHN ZINK	Coating Inspection and Test Record Surface Preparation	Semanana a cer 1. Sumace M 2. Sumace M
Coating Project Definition	Part t	S. S. MPART P.
Juhn Zink SO 15489-1722-03 RD	Drawing No. V-6181-053-V1804-001-100 REV D	188 1
Description FLUE GAS SCRUBBER 20NE	2 Coaring Company FLASHPOINT EQUIPMENTS PVT LTD	ALL ALL
Pre-Job Reviews		1 Chipped Po
Inspection & Test Plan	001 REV 0 Coating Specifications 8-000-5340-001 REV 4A	224
Paraonnel Qualification NACE CERTIFIED	Equipment Calibrations AS ATTACHED	OK THE OWNER







## SALIENT CUSTOMERS



## **PRODUCT RANGE (LIQUID SYSTEMS)**



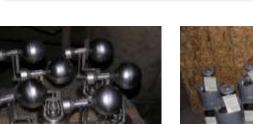
Fabricated Basket Strainer (FAB-STR)





Fabricated Basket Strainers with Air Eliminators (FAB-SAE)







#### **Centrifugal Gas Separators (CGS)**

Automatic Air Vents (AV125 / AV150)







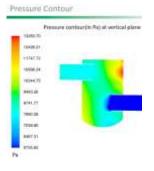


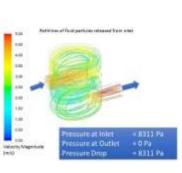
#### PRODUCT TYPE TESTING –FABRICATED BASKET STRAINERS

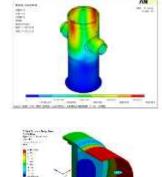
• Entire range of our FAB-STR Basket Strainers have been pressure drop type tested at external flow test facility .

•Computational Fluid Dynamics (CFD) Analysis is carried out on large vessel sizes where it is not possible to conduct actual flow tests due to large flow conditions.

•Critically stressed components like Quick opening closures (QOC`s) & Nozzle joints are analyzed by ANSYS Finite Element software .







ASH PC

EQUIPMENTS PVT. LTD.

TM





Strainer Pressure drop test being witnessed at external test lab

of water Resources. Row Description and Gauge Report Central Water and Power Research Station

INDIAULIE BACHNERY AND CRUTTADON DRINGH TRAC CRUTTRICATE FOR PHEAST DE BHOT IN STRATEG

TERT DATE ALSO DHE RES PH 110 DIAME Para Na Polant - ROOL BART LA

1942 As ADDRESS ADDRESS

CATLAN Prove Diamon

1234 and solid match arrests for adverse area















JOB NO. : FPE 890 , ENDRESS+HAUSER, SWITZERLAND P.O. 250/1021108383 Year : SEP. 2013
END USER : PETROECUADOR , SANTO DOMINGO
PROJECT : LICITACION PUBLICA INT., SANTO LACT PROJECT
PRODUCT : 7 X FABRICATED BASKET STRAINERS TYPE FAB-SAE, 8"CL. 900 INLET/ OUTLET, 24 "SHELL
10"CL. 150 WITH 24"SHELL & 16"CL. 150 WITH 30"SHELL
WITH SS BASKETS 40 MESH , BODY COVER 24" VERTICAL QOC TYPE SEG4LOCK
PROCESS CONDITIONS : DIESEL/GASOLINE/JET FUEL 17.5 TO 131BARG, 200 DEG. C, MAX. 772 M3/HR
INSPECTION / CERTIFICATION: ASME U STAMPED BY ABS













END USER : GASCO, ABU DHABI

- PROJECT : CRUDE OIL METERING SYSTEM- BECHTEL
- PRODUCT : 6 X BASKET STRAINERS TYPE FAB-SAE , 10"CL. 900 INLET/ OUTLET, 24 "SHELL WITH 3NOS OF SS BASKETS , BODY COVER 24" VERTICAL QOC TYPE SEG4LOCK

6 X BASKET STRAINERS TYPE FAB-SAE , 8"CL. 900 INLET/ OUTLET, 20 "SHELL WITH 3NOS OF SS BASKETS , BODY COVER 20" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : CRUDE OIL/CONDENSATE 120 KG/CM2G , 65 DEG. C , 350 M3/HR INSPECTION / CERTIFICATION: FINAL INSPECTION RELEASE BY DnV











HSB V Global Standards

At Madena, 215 - 181- 27 19828 55.11 #133-036F TH Ballah - 18454-017 - 580 Paule

25.11.4103-0107-01 anna hitigiotamla-da-da-com

Certificado de Conformidade com NR-13 para Prontuário de Registro de Vaso de Pressão (Certificate of conformance with NR-13 for Pressure Vessel Registration Log Book)

Data (Bent: 02 de Fevereiro de 2011.

Local da instalação (Plant Location): não informado (not informed)

Fabricante (Manufacturer): Flash Point Equipments Pvt Ltd. Plot No. 170, Sector 7, PCNTDA Industrial Area, Bhosari, Pune - 411026, India

Ordem de fabricação no. (Job No.): FPE 683

Descrição do vaso de pressão (Pressure Vessei Description): Um Vaso de pressão lipo Fabricated Basket Strainer with Air Eliminator 20" NB CL 150 with 58" QOC - Custody Transfer Metering Cargo Off Loading, com dimensões principais de 1473 mm de diámetro e 2529 mm de atura.

28
Ju Cha
TORNE D

inter 16 -DAV IN IN 145.57 that the p Type Barl -Damps pr Display 14 Sarial Yes

interested 1 tion install ORDEr VALUE

DET NORSKE VERITAS CERTIFICATE FOR PRESSURE VESSEL

e) 1.0	Finalmenter Equipments Private Limited, Para, India.			
or's writer Tile				
	Enservein Process Banagement Asia Parific PTE, Lanted, Ringsport			
a proper big-	JP 62006701/24	JP \$2006741 / \$151 dated \$4.08.3010		
if as independent for				
	-			
	1900 - C			
	106811			
10 C	EQUIP (5	EQUIP (3		
0-GERTHENI				
and and the second s	Realist Strainer	with Air Elimitator		
president	Canigh Looks #5	ME VEDH 1 & DWY-D	D-GRIT Dist. WHIT	
resign Class		Class II		
Tell main	Bindney & Air Sil	emailer) Tris	- Web	
openative maximum (degC)	An Eliminator)		inter -	
	PERSONAL Compare New York (PERSONAL INCOMPANY)			
to the following barreto:	1.			
tuit and leater is accordance with the		e som		
a for Glassification: [1] Srige		C1 Manual	TI Ofarana	
O Other adapted				















JOB NO. : FPE 755 , EMERSON PROCESS, SINGAPORE P.O. JP83009024/D175 Year : SEP. 2010

END USER : FERNAS ENGINEERING PROJECTS

PROJECT : IOCL- PARADIP REFINERY OFFSITES PROJECT

PRODUCT : 28 X FABRICATED BASKET STRAINERS TYPE FAB-SAE, 16"CL. 300 INLET/ OUTLET, 44"/42 "/34"& 16"SHELL WITH SS BASKETS 40 MESH , BODY COVER 44"/ 42"/34"& 16" VERTICAL QOC TYPE SEG4LOCK PROCESS CONDITIONS : HSD/MS/DPK/PROPYLENE 38.9 BARG, 65 DEG. C , MAX. 2165 M3/HR

INSPECTION / CERTIFICATION: CUSTOMER INSPECTION & RELEASE























ODS Metering Systems





شركة أبوطلبي للعمليات البترولية البرية (أدكـو) المحدودة Abu Dhabi Company for Onshore Petroleum Operations (ADCO) Ltd.



CUSTOMER ODS METERING SYSTEMS, NETHERLANDS P.O. 2016 PR537 Year : DEC 2016

END USER : ADMA-OPCO / TECHNIMONT

PROJECT : AL DABBIYA FIELD DEVELOPMENT PROJECT PHASE III

PRODUCT : 3 X FABRICATED BASKET STRAINERS TYPE FAB-SAE , 16"CL. 900 INLET/ OUTLET, 30 "SHELL WITH 4NOS OF SS BASKETS 40 MESH , BODY COVER 30" VERTICAL QOC TYPE SEG4LOCK CL.900

PROCESS CONDITIONS : CRUDE OIL 130 BARG, 150 DEG. C, 973 M3/HR INSPECTION / CERTIFICATION: TPI INSPECTION BY BVIS













#### JOB NO. : FPE 751 , EMERSON PROCESS, SINGAPORE P.O. JP83008844/D166 Year : MAY. 2011

- END USER : SPIE CAPAG AUSTRALIA
- PROJECT : EXXON- PNG LNG EPC5A METERING PROJECT
- PRODUCT : 2 X FABRICATED BASKET STRAINERS TYPE FAB-SAE, 6"CL. 1500 INLET/ OUTLET, 16 "SHELL WITH SS BASKETS 40 MESH , BODY COVER 16" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : CPF CONDENSATE 250 BARG, 50 DEG. C , MAX. 250 M3/HR INSPECTION / CERTIFICATION: CUSTOMER INSPECTION RELEASE













- JOB NO. : FPE 453 , 570 & 638 , EMERSON, SINGAPORE P.O. JP83001108,2341,4843 Year : 2009- 2010
- END USER : CAIRN INDIA- RAJASTHAN CRUDE OIL PIPELINE PROJECT
- PROJECT : MANGALA DEVELOPMENT PIPELINE PROJECT
- PRODUCT : 18 X FABRICATED BASKET STRAINERS TYPE FAB-SAE , 4 "TO 12 "CL. 600 INLET/ OUTLET, 10"TO 24 "SHELL , SS BASKETS 40 MESH , BODY COVER 10"TO 24 " VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : CRUDE OIL 101 BARG, 93 DEG. C , 119 TO 397 M3/HR INSPECTION / CERTIFICATION: CUSTOMER INSPECTION & RELEASE











JOB NO.		FPE 998 , ENGINEERS INDIA LTD. P.R. 4066/0043 Year : JUNE 2015
END USER		IOCL , BARAUNI – EIL JOB NO. A546
PROJECT		COKER A REVAMP PROJECT AT IOCL, BARAUNI
PRODUCT		2 X FABRICATED BASKET STRAINERS W STEAM HEATER COIL TYPE FAB-STR, 3"CL. 300 INLET/ OUTLET, 10 "SHELL
		WITH SS BASKETS 40 MESH , BODY COVER 10" BOLTED CL.300, BODY SS304L WITH SS304 STEAM COIL
PROCESS C	ONC	DITIONS : CFO PRODUCT FILTER 14.5 BARG , 392DEG. C , MAX. 19.2 M3/HR
INSPECTIO	N / C	CERTIFICATION: EIL INSPECTION RELEASE











- JOB NO. : FPE 329 , EMERSON PROCESS, SINGAPORE P.O. OP38137730/D02 Year : AUG. 2006
- END USER : BRITISH GAS, PANNA MUKTA OFFSHORE PLATFORM
- PROJECT : WATER INJECTION METERING PROJECT
- PRODUCT : 4 X FABRICATED BASKET STRAINERS TYPE FAB-SAE, 6"CL. 900 INLET/ OUTLET, 12 "SHELL 2 X FABRICATED BASKET STRAINERS TYPE FAB-SAE, 4"CL. 600 INLET/ OUTLET, 8 "SHELL WITH SS BASKETS 40 MESH , BODY COVER 8"/ 12" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : INJECTION WATER 120 BARG, 60 DEG. C , MAX. 20 M3/HR INSPECTION / CERTIFICATION: CUSTOMER INSPECTION RELEASE











YAMGAZ

JSC Yamal LNG

FPE 956, EMERSON, SINGAPORE JOB NO. P.O. JP 83022988 Year : OCT.2014

END USER : JSC YAMAL LNG , RUSSIA

PROJECT : CONDENDATE METERING AT YAMGAZ FIELD DEVELOPMENT PROJECT.

PRODUCT : 4 X FABRICATED BASKET STRAINERS TYPE FAB-SAE,12"CL. 300 INLET/ OUTLET, **30"SHELL IN MATERIAL LTCS WITH 4X SS BASKETS** 40 MESH, BODY COVER 30" VERTICAL QOC TYPE SEG4LOCK + 2 x Y-STRAINERS 1"CL.300

PROCESS CONDITIONS : HC CONDENSATE 48 BARG,(-)50 TO 65 DEG. C, MAX. 1600 M3/HR

INSPECTION / CERTIFICATION: ASME U BY ABS











- END USER : NIGERIAN PETROLEUM DEVELOPMENT CO.-NIGERIA
- PROJECT : CRUDE OIL METERING (SHELL, NIGERIA)

PRODUCT : 20 X FABRICATED BASKET STRAINERS TYPE FAB-SAE, 6"TO 16"CL. 600 INLET/ OUTLET, 40"/20 "/16"& 12"SHELL WITH SS BASKETS 40 MESH , BODY COVER 40"/ 20"/10"& 12" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : CRUDE OIL 65 BARG, 50 DEG. C , MAX. 1437 M3/HR

INSPECTION / CERTIFICATION: ASME U BY ABS











JOB NO. : FPE 803, TRANSWATER , MALAYSIA P.O. GOPJ00734 Year : JAN. 2012

END USER : EXXON MOBIL , MALAYSIA

PROJECT : CONDENDATE METERING AT TAPIS-R & GUNTUNG E FIELD DEVELOPMENT PROJECT .

PRODUCT : 2 X FABRICATED BASKET STRAINERS TYPE FAB-SAE,2"CL. 900/300 INLET/ OUTLET, 8"/6"SHELL INMATERIAL DUPLEX SS WITH DX BASKETS 40 MESH, BODY COVER 8"& 6" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : HC CONDENSATE 131BARG, 65 DEG. C , MAX. 11 M3/HR

INSPECTION / CERTIFICATION: BY EXXON MOBIL













SAMSUNG SAMSUNG ENGINEERING JOB NO. : FPE 1021, EMERSON,SINGAPORE , P.O. JP83026260 Year : AUG. 2015

END USER : SAMSUNG ENGINEERING

PROJECT : CONDENDATE METERING AT TIMIMOUN FIELD DEVELOPMENT PROJECT , ALGERIA

PRODUCT : 2 X FABRICATED BASKET STRAINERS TYPE FAB-SAE, 3"CL. 150 INLET/ OUTLET, 8"SHELL IN MATERIAL LTCS WITH 1X BASKETS 40 MESH, BODY COVER 8" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : HC CONDENSATE 9 BARG, 90 DEG. C , MAX. 11 M3/HR

INSPECTION / CERTIFICATION: ASME U BY ABS

















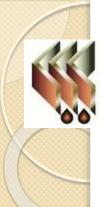


4		_	
ſ	JOB NO.		FPE1001 , KSB PUMPS & VALVES,PUNE P.O. JP83021992 Year : AUG 2014
	END USER		NUCLEAR POWER CORPORATION OF INDIA
	PROJECT		BOOSTER PUMP SUCTION STRAINER FOR KAKRAPAR 3 & 4 NUCLEAR POWER STATION
	PRODUCT		6 X FABRICATED BASKET STRAINERS TYPE FAB-STR , 26"CL. 300 INLET/ OUTLET, 46 "SHELL WITH 10 NOS OF SS
			BASKETS 40 MESH , BODY COVER 46" BOLTED COVER WITH DAVIT.
	PROCESS C	ONI	DITIONS : BOILER FEED WATER 16 BARG, 190 DEG. C , 2145 M3/HR
	INSPECTIO	N / I	CERTIFICATION: BY NPCIL & DODSAL













Dangote Oil Refinery Company



Engineers India Limited Engineers India Bhavan 8th Floor, 1, Bhikaiji Cama Place, New Delhi - 110 066 India

- JOB NO. : FPE 1140 , DANIEL MEASUREMENT, PUNE P.O. OP80722143 Year : OCT 2017
- END USER : DANGOTE OIL REFINERY & PETROCHEMICALS, NIGERIA
- PROJECT : CRUDE OIL METERING SKID AT DANGOTE REFINERY

PRODUCT : 11 X FABRICATED BASKET STRAINERS TYPE FAB-STR 24"/20" CL. 300 INLET/ OUTLET, 48"/42"SHELL WITH SS BASKETS 40 MESH , BODY COVER 48"/ 42" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : CRUDE OIL 29 BARG, 65 DEG. C , MAX. 3025/2117 M3/HR

INSPECTION / CERTIFICATION: TPI BY EIL (TUV SUD ON BEHALF OF EIL)













شركة أبوظبي للعمليات البترولية البرية (أدكـو) المحدودة Abu Dhabi Company for Onshore Petroleum Operations (ADCO) Ltd.

EPC FOR AL DABB'IYA SURFACE FACILITIES-PHASE III



#### **ODS Metering Systems**

klöckner & co multi metal distribution

JOB NO. :	FPE 1092 , ODS METERING SYSTEMS P.O. 2016PR537-03 Year : DEC 2016
END USER :	TECHNIMONT- ABU DHABI CO. FOR ONSHORE PETROLEUM OPERATIONS( ADCO)
PROJECT :	AL DABBIYA SURFACE FACILITIES DEV. PHASE III
PRODUCT :	3 X FABRICATED BASKET STRAINERS TYPE FAB-STR 16" CL. 900 INLET/ OUTLET, 32"SHELL
	WITH SS BASKETS 40 MESH , BODY COVER 32" VERTICAL QOC TYPE SEG4LOCK
PROCESS CON	IDITIONS : CRUDE OIL 130 BARG, 150 DEG. C , MAX. 382 – 973 M3/HR
<b>INSPECTION /</b>	CERTIFICATION: ASME U CERT. /DnV

















इंजीनियर्स ENGINEERS इंडिया लिमिटेड (भारत स्पर्यार का उम्राग) (A Gort of India Undertaking)

Basket Filter for PNCPL Project, NREP'

JOB NO.	FPE 1599 , NUMALIGARH REFINERY P.O. PUR-PRJNUM-1005268 Year : APRIL 2023
END USER	NUMALIGARH REFINERY, ASSAM
PROJECT	PNPCL PROJECT AT NREP

PRODUCT : 12 X FABRICATED BASKET STRAINERS TYPE FAB-STR 14" CL. 600 INLET/ OUTLET, 50"SHELL WITH SS BASKETS 40 MESH , BODY COVER 50" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : CRUDE OIL 87 KG/CM2G, 65 DEG. C , MAX. 3025/2117 M3/HR

INSPECTION / CERTIFICATION: TPI BY EIL (TUV-NORD FOR ASME U CERT. OF QOC)



















JOB NO. : FPE 1448 , SIEMENS ENERGY P.O. 4510118772 Year : DEC 2021

- END USER : LINDE ALABAMA LUBE OIL PLANT, USA
- PROJECT : LUBE OIL PLANT AT ALABAMA, USAI

PRODUCT : 12 X FABRICATED DUPLEX STRAINERS TYPE FABDX-STR 3" CL. 150 INLET/ OUTLET, 8"SHELL WITH 50 MICRON PAPER CARTRIDGES, BODY COVER 8" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : LUBE OIL , 121DEG. C , MAX. 970M3/HR

INSPECTION / CERTIFICATION: ASME U CERT. /DnV













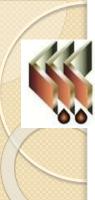


ľ	JOB NO.		FPE 1310 , EMERSON PROCESS MANAGEMENT Year : DEC 2019
	END USER		UZBEK GAS
	PROJECT		GAS DEVELOPMENT PROJECT AT UZBEKISTAN
	PRODUCT		4 X FABRICATED T STRAINERS TYPE TFAB-STR 20" CL. 600 INLET/ OUTLET, 20"SHELL
			WITH SS BASKETS, BODY COVER 20" VERTICAL QOC TYPE SEG4LOCK
	PROCESS CO	ON	DITIONS NATURAL GAS 65 BARG/ -29 TO 120 DEG.C
	INSPECTION	N / N	CERTIFICATION: 3.1 CERT.
١			
1	-		













	U.		
1	JOB NO.	:	FPE 806 , EMERSON PROCESS, MALAYSIA P.O. OP8042200 Year : FEB. 2012
	END USER		PETRONAS, MALAYSIA
	PROJECT		LUBE OIL METERING PROJECT, MALAYSIA
	PRODUCT		4 X FABRICATED BASKET STRAINER 10"CL. 300 + 4X CENTRIFUGAL GAS SEPARATORS 1400L,
			10"CL. 300 INLET/ OUTLET, 3"QOC SEG4LOCK-V FOR BASKET STRAINER
			GAS SEPARATOR WITH AUTOMATIC AIR VENT AV150 IN A QUICK OPENING CLOSURE
	PROCESS C	ON	DITIONS : LUBE OIL . 26.6 BARG, 85 DEG. C , UPTO 600 M3/HR
	INSPECTIO	N /	CERTIFICATION: INSPECTION CLEARANCE BY DnV IN ACCOEDANCE WITH DOSH, MALAYSIA







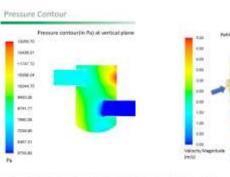
## PRODUCT TYPE TESTING -CENTRIFUGAL GAS SEPARATORS Evaluation

• Entire range of our Centrifugal Gas Separators have been type tested and certified by NMI Certin B.V. to conform to and meet requirements of OIML-R117-1 Ed.2007 "Dynamic measuring systems for liquids other than water"

•Computational Fluid Dynamics (CFD) Analysis is carried out on large vessel sizes where it is not possible to conduct actual flow tests due to large flow conditions.

•All Air Vents are function tested at our own test bench before dispatch .





CFD ANALYSIS OF CENTRIFUGAL GAS SEPARATOR

CFD Results



insu of David particips released from inte







- JOB NO. : FPE 859 , ENDRESS+ HAUSER , MUMBAI P.O. 1022817146 Year : JAN. 2013
- END USER : BHARAT PETROLEUM CORPRN. OF INDIA (BPCL)
- PROJECT : TERMINAL AUTOMATION SYSTEM AT 6 BPCL TERMINALS ACROSS INDIA
- PRODUCT : 15 X FABRICATED VERTICAL CENTRIFUGAL GAS SEPARATORS 480 L TO 2200L , 2"- 12"CL. 150 INLET/ OUTLET, WITH AUTOMATIC AIR VENT AV150 IN A QUICK OPENING CLOSURE

PROCESS CONDITIONS : SKO, MS, DIESEL , NAPTHA ETC. 10 BARG, 65 DEG. C , UPTO 2000 M3/HR INSPECTION / CERTIFICATION: STAGE INSPECTION AND RELEASE BY DnV













- JOB NO. : FPE 899, WOOJIN INC, SOUTH KOREA P.O. 402120001 Year : FEB. 2014
- END USER : SAUDI ARAMCO, SAUDI ARABIA / OVAL FLOWMETERS, JAPAN
- PROJECT : RABIGH- II , UO1 PROJECT, SAUDI ARABIA
- PRODUCT : 8 X FABRICATED VERTICAL CENTRIFUGAL GAS SEPARATORS 890 L TO 2700L , 8"- 16"CL. 150 INLET/ OUTLET, WITH AUTOMATIC AIR VENT AV150 IN A QUICK OPENING CLOSURE

PROCESS CONDITIONS : METHANOL, ACETIC ACID ETC. 17.5 BARG, 85 DEG. C , UPTO 1300 M3/HR INSPECTION / CERTIFICATION: INSPECTION CLEARANCE BY WOOJIN INC.











JOB NO. : FPE 982 , ENDRESS+ HAUSER , SWITZERLAND P.O. 250/1021178637 Year : APRIL. 2015

- END USER : DENIC SAVAC SISTEMERI, TURKEY
- PROJECT : SHELL-DERINCE/ANTALYA , CEKISAN-ANTALYA, PETGAZ-II HAWA , BP-GEMLIK
- PRODUCT : 7 X FABRICATED VERTICAL CENTRIFUGAL GAS SEPARATORS 480 L TO 4400L , 6"- 18"CL. 150 INLET/ OUTLET, WITH AUTOMATIC AIR VENT AV150 IN A QUICK OPENING CLOSURE

PROCESS CONDITIONS : DIESEL, NAPTHA ETC. 16 BARG, 65 DEG. C, UPTO 2000 M3/HR INSPECTION / CERTIFICATION: CE/PED INSPECTION CLEARANCE BY ABS ( HPI VERIFICATION SERVICES)









Not for



		11.500.40°C	TION REPORT	
			REPORT N DATE	C IEX/6312/L/AXFD301//R-03 25 sept 2013
ADDRES	S: Plot No. G-20. M	F0301 T EQUIPMENTS PVT LT IDC Chakan Ial Araa Vilaon Nichor	TEIL DWG NO VENDOR DWG N	ONGC 1492013, 2392013 & 2592013 6312 2 3 3 3 3 3 3 3 3 3
SUB-VEN	IDOR		ORDER STATUS	COMPLETE/PARTIAL
	EERENG INDIA UMBAI - 406 078		RELEASE STATUS	5 COMPLETE/PARTIAL/GON(NTYON/ NOT-RELEASED
08 10 - 2 3 2	PROJECT / 0	8F		
	Pricesol eith bankatio	Wile detering		
nite A moderal	Processo with Indefaulto in accordance, with care Do not process with fail	n/nents		
pinai	interviewing			
ALD.	1684			
LMS	LAS	TMTH		
Report Channel with a mention being and channel of and in entropy with the co- mit in entropy of the co- mit in entropy of the co- mit in the co- traction of the co- mit in the co- mi	per un foi condita foi record as an autoritation record as an autoritation record as an autoritation			

- JOB NO. : FPE 885, TOYO ENGINEERING P.O. PRC/63124/AXFD301 Year : AUG. 2013
- END USER : ONGC, DAHEJ
- PROJECT : C3-C4 (PROPANE- BUTANE ) PIPELINE AT DAHEJ
- PRODUCT : 2 X FABRICATED VERTICAL CENTRIFUGAL GAS SEPARATORS 185 L TO 250L , 4"- 6"CL. 300 INLET/ OUTLET, WITH AUTOMATIC AIR VENT AV150 IN A QUICK OPENING CLOSURE

PROCESS CONDITIONS : PROPANE & BUTANE 20 BARG, 55 DEG. C, 55 TO 77 M3/HR

INSPECTION / CERTIFICATION: INSPECTION CLEARANCE BY TOYO













- JOB NO. : FPE 810 , ENDRESS+HAUSER,SWITZERLAND, P.O. 270/1021051203 Year : MAY 2012
- END USER : GUADILES TERMINAL, COSTA RICA
- PROJECT : TERMINAL METERING SKIDS FOR DIESEL ETC. AT COSTA RICA
- PRODUCT : 8 X FABRICATED VERTICAL CENTRIFUGAL GAS SEPARATORS 100 L TO 750L , 3"- 6"CL. 150 /300 INLET/ OUTLET, WITH AUTOMATIC AIR VENT AV150 IN A QUICK OPENING CLOSURE

PROCESS CONDITIONS : BUNKER OIL, DIESEL ETC. 49 BARG, 55 DEG. C , UPTO 300 M3/HR INSPECTION / CERTIFICATION: INSPECTION CLEARANCE BY CUSTOMER

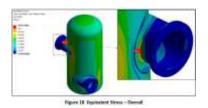














JOB NO. : FPE 1234 , WOOD GROUP CANADA INC., P.O. 20038602 Year : MARCH 2020 END USER : NEWFOUNDLAND TRANSHIPMENT LTD. ( NTL) PROJECT : PROJECT CRUDE OIL TRANSHIPMENT & METERING FOR EXXON PRODUCT : 2 X FABRICATED CENTRIFUGAL GAS SEPARATORS 10000L, 30"CL. 150 INLET/ OUTLET WEIGHT OF EACH VESSEL : 11175 KGS PROCESS CONDITIONS : CRUDE OIL, 18.6 BARG, (-)17 TO 60 DEG. C INSPECTION / CERTIFICATION: ASME U CERTIFICATION, DESIGN REVIEW AND CERTIFICATION BY RPE , CANADIAN REGULATIONS









#### JOB PHOTOGRAPHS - CENTRIFUGAL GAS LIQ. CYCLONE SEPARATORS (GLCC)





- JOB NO. : FPE 888 , EMERSON PROCESS, ABU DHABI , P.O. 74705753 Year : APRIL 2015
- END USER : ABU DHABI CO. FOR ONSHORE OIL OPERATIONS (ADCO)
- PROJECT : PROJECT P11569- BAB FAR NORTH CO2 INJECTION PILOT PROJECT
- PRODUCT : 2 X FABRICATED GAS LIQUID CENTRIFUGAL SEPARATORS, 1"CL. 300 INLET/ OUTLET, IN COMPLETE INCONEL 625 CONSTRUCTION

PROCESS CONDITIONS : CRUDE OIL + NATURAL GAS +CO2 . 49 BARG, 150 DEG. C ( 3-PHASE FLOW) INSPECTION / CERTIFICATION: INSPECTION CLEARANCE BY DnV









# PRODUCT RANGE (DRY GAS FILTERS)







Horizontal Dry Gas Filters ( FPFILH) Vertical Dry Gas Filters ( FPFILH)







## **PRODUCT RANGE ( DRY GAS FILTERS)**





- JOB NO. : FPE879 , DANIEL MEASUREMENT P.O. OP80718364/B6 Year : May 2014
- END USER : ONGC- TROMBAY & URAN
- PROJECT : UPGRADATION OF METERING SYSTEM TO ULTRASONIC METERS
- PRODUCT : 2 X VERTICAL DRY GAS FILTERS TYPE FPFILV1 , 16"CL. 300 INLET/ OUTLET, 48 "SHELL WITH 33NOS OF FG536 DRY GAS DEPTH CARTRIDGES , BODY COVER 48" VERTICAL QOC TYPE SEG4LOCK

PROCESS CONDITIONS : NATURAL GAS 49 KG/CM2G , 65 DEG. C , 5.25 MMSCMD

INSPECTION / CERTIFICATION: ASME U STAMPED QOC , STAGE & FINAL INSPECTION RELEASE BY TUEV













- JOB NO. : FPE1220, EMERSON DANIEL, UNITED KINGDOM P.O. 4149005304 Year : DEC.2018
- END USER : BRUNEI FERTILISER (SHELL BRUNEI)
- PROJECT : INDUSTRIAL GAS TERMINAL (IGT-2), METERING SKID
- PRODUCT : 2 X VERTICAL DRY GAS FILTERS TYPE FPFILV1 , 12"CL. 600 INLET/ OUTLET, 32 "SHELL WITH 15NOS OF FG536 DRY GAS DEPTH CARTRIDGES , BODY COVER 32" VERTICAL QOC TYPE SEG4LOCK
- PROCESS CONDITIONS : NATURAL GAS 91 BARG, 70DEG. C , 3.2 MMSCMD

INSPECTION / CERTIFICATION: ASME U STAMPED QOC , STAGE & FINAL INSPECTION RELEASE BY ABS & THYSSEN KRUPP







## **PRODUCT RANGE (DRY GAS FILTERS)**



JOB NO.:FPE870 , EMERSON PROCESS-REGULATOR DIVN. P.O. OP80717008/ib7 Year : APRIL 2013END USER :SUNDERBAN GAS COMPANY , BANGLADESHPROJECT :CITYGATE & LOCAL NATURAL GAS DISTRIBUTIONPRODUCT :MORE THAN 390 NOS X VERTICAL DRY GAS FILTERS WITH INLET SIZE 2 " TO 8"CL. 150 , HAVING SHELL SIZES 6"/8"/16"/ 18" ALL WITH VERTICAL QOC TYPE SEG4LOCK-VPROCESS CONDITIONS :NATURAL GAS 250 PSIG, 65 DEG. CINSPECTION / CERTIFICATION:STAGE & FINAL INSPECTION RELEASE BY DnV









# **PRODUCT RANGE ( DRY GAS FILTERS)**







- JOB NO. : FPE1016 , EMERSON PROCESS-REGULATOR DIVN. P.O. 6317029931 Year : AUG 2015
- END USER : JALALABAD GAS COMPANY , BANGLADESH
- PROJECT : CITYGATE & LOCAL NATURAL GAS DISTRIBUTION

PRODUCT : 24 NOS X VERTICAL DRY GAS FILTERS WITH INLET SIZE 2 " TO 6"CL. 150 , HAVING SHELL SIZES 6"/ 8"/16"/ 18" ALL WITH VERTICAL QOC TYPE SEG4LOCK-V, 2X HORIZONTAL FILTER SEPARATOR 4"CL. 600 WITH 16 "SHELL WITH HORIZONTAL QOC, 2 X VERTICAL LIQUID SEPARATORS 6"CL. 300 WITH 20"SHELL

PROCESS CONDITIONS : NATURAL GAS 650/ 250 PSIG, 65 DEG. C

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV









#### **PRODUCT RANGE( VERTICAL COALESCERS & FILTER SEPARATORS)**













Vertical Coalescers with Schoepentoeter (FPFILV2-SH) Vertical Filter Separators FPFSVV- Filter with vane demister FPFSVC- Filter with multicyclone











JOB NO. : FPE481 , DANIEL MEASUREMENT, VADODARA P.O. 7874100 Year : MAY 2008

END USER : INDIAN OIL CORPORATION LTD, PANIPAT TERMINAL

PROJECT : GAS METERING STATION, GAIL INDIA LTD, PANIPAT

PRODUCT : 2 X VERTICAL COALESCER FILTER WITH INLET SIZE 16 "CL. 600 , HAVING SHELL SIZES 48" WITH VERTICAL QOC ( MAKE GD)

PROCESS CONDITIONS : NATURAL GAS 100 KG/CM2G , 65 DEG. C

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV

Apples - and T

Martin

	Vegenerated Vegenerated WLTUEL R SEN	34
	***	







December 4

05403

DESIGN APPRAISAL DOCUMENT

DANIEL MEASUREMENT SOLUTIONS PVT. LTD. FLASH POINT EQUIPMENTS PVT. LTD. NATURAL GAS FILTER WITH VANE SEPARATOR

Filter with Vote separate





benits h

in the complete as

al aletter

REPART

autoria inte



JOB NO. : FPE846 , DANIEL MEASUREMENT, VADODARA P.O. OP80716391 Year : DEC 2012

END USER : TORRENT POWER COMPANY

PROJECT : GAS METERING STATION, GAIL INDIA LTD, TORRENT POWER

PRODUCT : 4 X VERTICAL COALESCER FILTER WITH INLET SIZE 12 "CL. 600 , HAVING SHELL SIZES 35"WITH VERTICAL QOC ( MAKE FLASH POINT SEG4LOCK-V)

PROCESS CONDITIONS : NATURAL GAS 98 BARG , 65 DEG. C , 6.0MMSCMD

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV











JOB NO. : FPE826 , DANIEL MEASUREMENT, VADODARA P.O. OP80716058 Year : JUL. 2012

END USER : IOCL, PANIPAT PROJECT : GAS METERING STATION, GAIL INDIA LTD, IOCL, PANIPAT

PRODUCT : 1 X VERTICAL COALESCER FILTER WITH INLET SIZE 8 "CL. 600, HAVING SHELL SIZES 25"WITH VERTICAL QOC ( MAKE FLASH POINT SEG4LOCK-V)

PROCESS CONDITIONS : NATURAL GAS 98 BARG, 65 DEG. C, 1.5MMSCMD

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV











JOB NO. : FPE932 , EMERSON REGULATORS P.O. OP80718402 Year : MAY 2014

END USER : DRESSER RAND, VADODARA

PROJECT : PARTICULATE FILTER FOR RELIANCE SHADOL- PHULPUR PIPELINE

PRODUCT : 2 X VERTICAL COALESCER FILTER WITH INLET SIZE 4 "CL. 600 , HAVING SHELL SIZES 12"WITH VERTICAL QOC ( MAKE FLASH POINT SEG4LOCK-V)

PROCESS CONDITIONS : NATURAL GAS 60 BARG , 100 DEG. C , 4600 NCMH

INSPECTION / CERTIFICATION: ASME U DESIGNATOR BY ABS











Tractebel Engineers and Constructors Pvt. Ltd.





FLASH POINT EQUIPMENTS PVT. LTD. | Filtration | Separation | Air Elimination | Metering Skids for Oil & Gas







JOB NO. : FPE1039 , CHEMTROLS INDUSTRIES , GOA P.O. B3L-160004 & B3L-160059 DT.24/6/16 Year : MAR-JULY 2016

END USER : GUJARAT STATE PETRONET LTD.,GANDHINAGAR (GSPL)

PROJECT : VERTICAL COALESCER FOR NATURAL GAS METERING SKIDS

PRODUCT : 52 X VERTICAL COALESCER FILTER WITH INLET SIZE 2'/3" "CL. 600 , HAVING SHELL SIZES 6"/ 12"WITH VERTICAL QOC ( MAKE FLASH POINT SEG4LOCK-V)

PROCESS CONDITIONS : NATURAL GAS 92 BARG , 65 DEG. C .

INSPECTION / CERTIFICATION: ASME U DESIGNATOR BY ABS + TPI BY DnV



### PRODUCT RANGE (VERTICAL 2-STAGE FILTER WITH MULTICYCLONE SEPARATOR)



JOB NO. : FPE946 , JSW, DOLVI P.O. SIP/14-15/4700027865 Year : FEB.2015

END USER : JSW POWER PLANT, DOLVI

PROJECT : FUEL GAS CONDITIONING AT POWER PLANT JSW, DOLVI

PRODUCT : 2 X VERTICAL FILTER WITH MULTICYCLONE SEPARATOR INLET SIZE 8 "CL. 300, HAVING SHELL SIZES 28"WITH VERTICAL QOC ( MAKE FLASH POINT SEG4LOCK-V)

PROCESS CONDITIONS : NATURAL GAS 49 BARG , 60 DEG. C , 50000 NCMH

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV









## PRODUCT RANGE (VERTICAL 2-STAGE FILTER WITH MULTICYCLONE SEPARATOR)





JOB NO. : FPE 1442 , EMERSON DUBAI FOR EAST GAS CO. , EGYPT ( EGC)

END USER : EAST GAS CO. (EGC), SINAI, EGYPT

PROJECT : MRS AT SHEIKH ZOWAYED , EGYPT

PRODUCT : 2 X VERTICAL FILTER WITH MULTICYCLONE SEPARATOR INLET SIZE 20 "CL. 600 , HAVING SHELL SIZES 44"WITH VERTICAL QOC ( MAKE FLASH POINT SEG4LOCK-V)

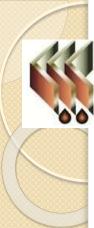
PROCESS CONDITIONS : NATURAL GAS 97.5 BARG , 70 DEG. C ,440 MMSCFD

INSPECTION / CERTIFICATION: ASME U Stamping & 3<sup>rd</sup> Party Inspection by TUEV









# PRODUCT RANGE ( HORIZONTAL FILTER SEPARATORS & GAS FILTRATION SKIDS )





Horizontal Filter Separators FPFSHV- Filter with vane demister & external condensate collection tank

#### **Natural Gas Filtration Skids**











JOB NO. : FPE870 , EMERSON PROCESS-REGULATOR DIVN. P.O. OP80717008/ib7 Year : APRIL 2013

END USER : SUNDERBAN GAS COMPANY , BANGLADESH

PROJECT : CITYGATE & LOCAL NATURAL GAS DISTRIBUTION

PRODUCT : 26 X HORIZONTAL FILTER SEPARATORS WITH INLET SIZE 4 " TO 12"CL. 600 , HAIVING SHELL SIZES 14"/ 22"/28"/ 36"WITH HORIZONTAL QOC TYPE SEG4LOCK-H

PROCESS CONDITIONS : NATURAL GAS 1200 PSIG, 65 DEG. C

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV









## PRODUCT RANGE ( HORIZONTAL FILTER SEPARATORS )



- JOB NO. : FPE1016 , EMERSON PROCESS-REGULATOR DIVN. P.O. 6317029931 Year : AUG 2015
- END USER : JALALABAD GAS COMPANY, BANGLADESH
- PROJECT : CITYGATE & LOCAL NATURAL GAS DISTRIBUTION

PRODUCT : 2X HORIZONTAL FILTER SEPARATOR 4"CL. 600 WITH 16 "SHELL WITH HORIZONTAL QOCPROCESS CONDITIONS NATURAL GAS 650/ 250 PSIG, 65 DEG. C

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV









# PRODUCT RANGE ( HORIZONTAL FILTER SEPARATORS & GAS FILTRATION SKIDS )



- JOB NO. : FPE926 , EMERSON PROCESS-REGULATOR DIVN. P.O. OP80718283 Year : APRIL 2014
- END USER : UNITED POWER PLANT, ASHUGANJ, BANGLADESH
- PROJECT : FUEL CONDITIONING SYSTEM FOR NATURAL FIRED GAS ENGINES
- PRODUCT : 2 X HORIZONTAL FILTER SEPARATORS, 10"CL. 600 INLET/ UTLET WITH 24"SHELL FITTED WITH"SEG4LOCK-H QOC. 2x VERTICAL MULTICYCLONE SEPARATORS 10"CL. 600 & 2 X VERTICAL LIQUID DEMISTERS 12"CL. 300, 14"CL.150 WITH COMPLETE INTERCONNECTING PIPING WITH SKID MOUNTED GAS REGULATING & METERING SKID, SHOP ASSEMBLED AND SENT TO SITE FOR INSTALLATION.

PROCESS CONDITIONS : NATURAL GAS 1200 PSIG, 65 DEG. C , 100 MMSCFD INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV









#### **GAS FILTRATION SKIDS**









65MMSCFD 12" CL. 300 GAS FILTRATION SKID SUPPLIED TO MYAING KALAY (HPA-AN TOWNSHIP), MYANMAR FITTED WITH 3X 65MMSCFD VERTICAL GAS FILTERS WITH SEG4LOCK QOC (ASME"U" STAMPED) AND INTERCONNECTING PIPING, VALVES AND SUPPORTING SKID, GRATING, OPERATING PLATFORM, STAIRWAYS ETC - SITE COMMISSIONED IN 2013

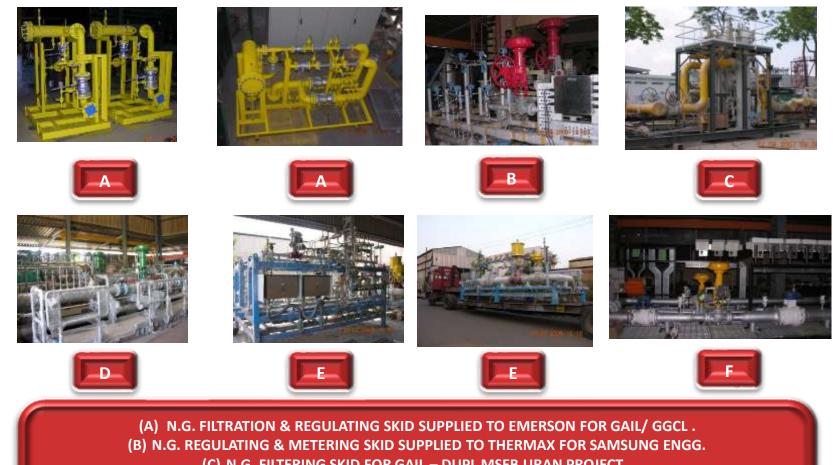








#### **GAS FILTRATION + REGULATING SKIDS**



(C) N.G. FILTERING SKID FOR GAIL – DUPL MSEB URAN PROJECT .
 (D) N.G. REGULATING, METERING SKID SUPPLIED TO THERMAX FOR UHDE-SAUDI PROJECT.
 (E) OIL & GAS REGULATING+ METERING SKID SUPPLIED TO THERMAX FOR PETROKEMYA – SAUDI PROJECT.
 (F) GAS REGULATING, METERING SKID SUPPLIED TO THERMAX FOR LURGI PROJECT.









R

DOPET

Signed nequest for servicient

Subserption Radpoint Equipment Pet Dal.

Turned oreand by the Importance hit 11th and 12th Docember 2017

#### PRODUCT RANGE ( CNG FLOW METERING SKID FOR QATAR **PETROLEUM**)







JOB NO. FPE1137 , EMERSON FLOW SOLUTIONS, DUBAI - AUG. 2017 END USER : **DOPET - QATAR PETROLEUM( QP)** PROJECT : **EXPN. OF PILOT CNG REFUELLING STATION AT SAMI** PRODUCT : 8"CL. 150 CNG FLOW METERING SKID PROCESS CONDITIONS : 12 KG/CM2G/ 60 DEG.C **INSPECTION / CERTIFICATION: FAT WITNESSED BY DOPET & LRIS** 





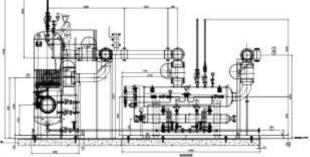




#### PRODUCT RANGE ( CYCLONE SCRUBBER & FILTER SEPARATOR SKID FOR GAIL CAUVERY BASIN RCVNG.SKID )







ſ	JOB NO.		FPE1427 , GAIL INDIA LTDP.O. GAIL/KKL/89510/5700046135 Year : 0CTOBER 2021
	END USER		GAIL INDIA LTD CAUVERY BASIN RECEIVING STATION
	PROJECT		CYCLONE & FILTER SEPARATOR SKID FOR GAIL CAUVERY BASIN STATION
	PRODUCT		1X MULTICYCLONE SEPARATOR + 2 X HORIZONTAL FILTER SEPARATOR
			WITH COMPLETE INTERCONNECTING PIPING WITH INSTRUMENTATION & CONTROLS ,
			SHOP ASSEMBLED AND SENT TO SITE FOR INSTALLATION .
	PROCESS C	ΟΝΙ	DITIONS : NATURAL GAS 50 KG/CM2G , 65 DEG. C , 1.0 MMSCMD
ų	INSPECTIO	N / (	CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV

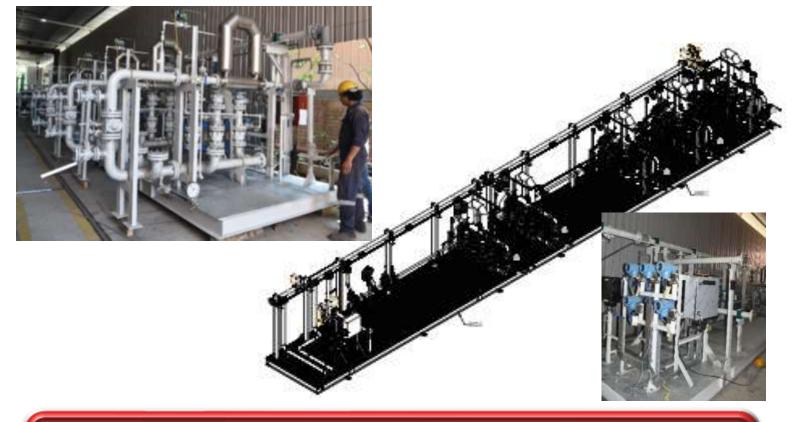








PRODUCT RANGE ( SIMULTANEOUS METERED BLENDER FOR EXXON MOBIL ASIA PACIFIC, SINGAPORE )



JOB NO. : FPE1533 ,EMERSON FLOW SOLUTIONS, SINGAPORE

- END USER : EXXONMOBIL ASIA PACIFIC PTE LTD.
- PROJECT : JURONG LOBP EXPANSION PROJECT
- PRODUCT : SIMULTANEOUS METERED BLENDER (35U-SMB01)
- PROCESS CONDITIONS : 12 KG/CM2G/ 60 DEG.C

INSPECTION / CERTIFICATION: FAT WITNESSED BY EXXON, WOOD PLC & EMERSON IN MARCH 2023









### PRODUCT RANGE (MULTICYCLONE KOD'S & VANE DEMISTERS)













Vane Separators (FPVS-SH)











#### PRODUCT RANGE (MULTICYCLONE KOD'S & VANE DEMISTERS)



JOB NO. : FPE 935, EMERSON, SINGAPORE P.O. 83893722 Year : JUNE 2014

END USER : JALALABAD GAS CO., BANGLADESH

PROJECT : CITY GAS DISTRIBUTION NETWORK

PRODUCT : 14 X FABRICATED VERTICAL LIQUID DEMISTER SEPARATORS, INLET 6"& 8"CL. 150 WITH ALL ACCESSORIES FOR AUTOMATIC LIQUID DRAIN, DPG, LIQUID LEVEL INDICATORS ETC.

PROCESS CONDITIONS : NATURAL GAS 17 BARG, 65 DEG. C , MAX. 30MMSCFD

INSPECTION / CERTIFICATION: DnV











#### PRODUCT RANGE ( MULTICYCLONE KOD )





JOB NO. : FPE1016 , EMERSON PROCESS-REGULATOR DIVN. P.O. 6317029931 Year : AUG 2015

END USER : JALALABAD GAS COMPANY , BANGLADESH

PROJECT : CITYGATE & LOCAL NATURAL GAS DISTRIBUTION

PRODUCT : 24 NOS X VERTICAL DRY GAS FILTERS WITH INLET SIZE 2 " TO 6"CL. 150 , HAVING SHELL SIZES 6"/8"/16"/18" ALL WITH VERTICAL QOC TYPE SEG4LOCK-V, 2X HORIZONTAL FILTER SEPARATOR 4"CL. 600 WITH 16 "SHELL WITH HORIZONTAL QOC, 2 X VERTICAL LIQUID SEPARATORS 6"CL. 300 WITH 20"SHELL

PROCESS CONDITIONS :

: NATURAL GAS 650/ 250 PSIG, 65 DEG. C

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY DnV









#### PRODUCT RANGE (MULTI AXIALCYCLONE KOD)



Citorinian or collecter.	Party Parcel Reportment of the Link, Part San Aug. Bird States (Socialized Area). In: String Report None, Brownedling (1999), Aug.	an the black
	(Berns and purpose of Manufactural	
1 Recently C	An Annin-Tariki Hartan O'Tarikan diwa Dari Katanini Tali Amangen dakki	
E. Laboratory of Subsequences	Bit States	
	Additional and an and a second s	
Partial distinguises	VVNCD-IN A A DED SERVER AD A BYNCH	
a Tute Monthle Texast	And Address of the Ad	
Color Desired Colors, No.	<ul> <li>Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-</li></ul>	
	1000 (218,0041)	
	THE MYLLAYS OF BUILDINGS & COMPLIANCE	
TRUCK AN TAXABLE AND A	I The suprime trained provide at some of beings, taking in contraction, and accomments of the one	Address of the
	141 Citiel Anno M. Anno I. Y Setting Children in the setting	100
Anna alla brava redatava est	No 2007 Anno VI, Simor I, Y Tanhari & Almaniar Anno 1	-14
	No. 2017 Annual Annual V Carbon Carbon Large - 4	-14
Anna alla brava redatava est		-
Annual and De and Performance of	544	
Annual and De and Performance of	en fan fan fan in fan Sin An (). Herken	**
Annual and De and Performance of	na han tau hanna basa san Sin Asiy Manana han san san san san san san san san san s	**
terminal de la contracta de la	en Pan Fain Ferraria (%) a ferraria	**
And the fragment of the second	en Jan Fan Louine Paria Strakely Banania International Control Strakely International Control Strake Control Strake International Control Strake Control Strake	
Annual Contraction of Annual Contractio of Annual Contraction of Annual Contraction of A	en Pan Fain Ferraria (%) a ferraria	
Annual Contraction of Annual Contractio of Annual Contraction of Annual Contraction of A	en Tan Karlan (series Scille) (series	
Annual Diana Print Print Barran II. 2011 Inc	<ul> <li>Text field formula for (interpreted by the second se</li></ul>	
Annual Province Constraints of The Annual Constraints of Annual The Annual Province Constraints The Annual Province Constraints	en her felderande for in sea Sin Arbite Bernard & Arbite Bernard B Bernard Bernard Ber	
A COMPANY AND A	$= 180 \text{ for the transmission is a large strength of the transmission is a large s$	
Construction of Construction o	en het fele fangen in de la son son son de la son son son de la so	
Construction of Construction o	$= 180 \text{ for the transmission is a large strength of the transmission is a large s$	
Construction of a construction	en beschieden einer Stellen son Stellen Stelle	
Construction of a construction	the first degramment is in the second	
Construction of a construction	$= \frac{1}{2\pi i \int dx_{1}^{2} dx_{2}^{2} dx_{3}^{2} dx_{4}^{2} dx_{4}$	

#### JOB NO. : FPE 919, EMERSON, SINGAPORE P.O. OP83870419 Year : FEB 2014

END USER : SANDAV PACIFIC, SINGAPORE

PROJECT : FUEL GAS CONDITIONING

PRODUCT : 3 X FABRICATED VERTICAL AXIAL CYCLONE KOD WITH 4"CL. 300 INLET/ OUTLET, 14 " SHELL WITH ALL ACCESSORIES FOR AUTO DRAIN, DPG , LIQUID LEVEL, SAFETY RELIEF ETC.

PROCESS CONDITIONS : NATURAL GAS 400 PSIGG, 65 DEG. C , MAX. 8.0 MMSCFD

INSPECTION / CERTIFICATION: ASME U BY ABS









#### **PRODUCT RANGE ( SURGE DAMPING VESSELS)**





JOB NO.:FPE929 , GOMA ENGINEERING Year : AUG 2015END USER:OIL INDIA LIMITED, ASSAMPROJECT:CRUDE OIL PUMPING AT OIL INDIA( EIL PROJECT)PRODUCT:20 NOS X VERTICAL SUCTION STABILISER VESSELS 2"/4"INLET OUTLET WITH 8"/ 12"SHELLPROCESS CONDITIONS:CRUDE OIL 98 BAR/65 DEG.CINSPECTION / CERTIFICATION:ASME U STAMP BY ABS









### **PRODUCT RANGE (SPECIAL FLUE GAS SCRUBBER)**

**CB&I Lummus** 



	MWORTHY	DAELIM Petrofac 🔞	Oman Refin Petrochemical
			Q
		Para la	
on Norm	arment Ns.: TL-IN-00 obtr wrm	State 1	N
Frash Point Equipments F	PVT, LTD.		2 martin
<ul> <li>Fell No. G-29, MDC, Doalest Ph. 81 Whote Mightain, Tel. Kheel, Die SECM.</li> </ul>	induntini Arnu, 1. Pairs 410 Nil -		

ineries and als Company



				1 M 1 M					
K	INSPECTION RELEASE NOTE			E NOTE	Document No.: (715-B(N-0) Flash Point Equipments				
JZHR Ne.1	C Project	SORAR-SC	ACTO28	Supplier Name	Flash Febri Er	courses PVT, LTD.			
Supp Purch Dede		18489-1722-03 R1 16285-1722-09 R0				added which all the			
JZIEC Chent DAELIN ( PET) Name:		STROFAD	Work-Shep becation:	19.01	IDC, Doalest telastivat Area, Fol, Khae), Disk, Paris 410 (62)				
N9.	lines		Mater	ial / Equipment Des		Progress			
*	2	Subply Set		PO 15489-1722-03 R DRUBBER and ATERN					

FPE1019 , JOHN ZINK HAMWORTHY COMBUSTION P.O. MR 1722/00 R1 Year : AUG 2015 JOB NO.

END USER : SOHAR REFINERY IMPROVEMENT, OMAN

JOHN ZINK

**FLUE GAS SCRUBBER** PROJECT :

PRODUCT : 1 NOS X VERTICAL FLUE GAS SCRUBBER APPROX, 2500MM DIA X 12000 MM LONG IN SS304L CONSTRUCTION PROCESS CONDITIONS : FLUE GAS 100 PSIG, 200DEG. C

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY TATA PROJECTS/ PETROFAC









### PRODUCT RANGE ( CODE STAMPED VOLUME TANK )



JOB NO. : FPE 1234 , WOOD GROUP CANADA INC., P.O. 20038602 Year : MARCH 2020

END USER : NEWFOUNDLAND TRANSHIPMENT LTD. (NTL)

PROJECT : PROJECT CRUDE OIL TRANSHIPMENT & METERING FOR EXXON

PRODUCT : 1X FABRICATED CONDENSATE COLLECTION TANK

**VOLUME OF EACH VESSEL : 14200 LIT** 

PROCESS CONDITIONS : CRUDE OIL, 18.6 BARG, (-)17 TO 60 DEG. C

INSPECTION / CERTIFICATION: ASME U CERTIFICATION, DESIGN REVIEW AND CERTIFICATION BY RPE , CANADIAN REGULATIONS





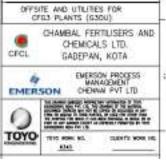




## PRODUCT RANGE ( FUEL GAS CONDITIONING & HEATING FOR GAS TURBINE POWER PLANT )









- JOB NO. : FPE1077, EMERSON REGULATORS, SINGAPORE P.O. DS-005 Year : AUG 2016-17
- END USER : CHAMBAL FERTILISERS, KOTA, RAJASTAN
- PROJECT : FUEL GAS CONDITIONING & HEATING SYSTEM

PRODUCT : 1 NOS X VERTICAL FLUE GAS SCRUBBER , 2 NOS COALESCERS, 2 NOS GAS HEATERS USING STEAM AS HEATING MEDIA & 2 NOS FINE FILTERS .

PROCESS CONDITIONS : NATURAL GAS 58 KG/CM2G/ 60 DEG.C , STEAM AT 3.5 BARG/ 250 DEG.C INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY TOYO/ IBR









## PRODUCT RANGE (EXTRACTION COLUMN SKID FOR PRAIRIE CATALYTIC LLC,USA)











JOB NO.:FPE1111 , TEXOL ENGINEERING,PUNE PO916202954 Year : JUNE 2017END USER:PRAIRIE CATALYTIC LLC , USAPROJECT:EXTRACTION COLUMN SKIDPRODUCT:1 NOS X EXTRACTION COLUMN,, 1 X REBOILER, 1X KNOCK-OUT POT, 1 X STRIPPER COLUMNPROCESS CONDITIONS:3.5 KG/CM2G/ 155 DEG.C, STEAM AT 3.5 BARG/ 250 DEG.CINSPECTION / CERTIFICATION:ASME U DESIGNATOR BY ABS







### PRODUCT RANGE (HIGH PRESSURE SAND FILTER)





		Ret. 3P-65	Bev.	Page 1/5
2		1		105
	- TECHNICAL SPE	CIFICATION	-	
	MANUFACTURING OF 99400 10 000 Psi - H2S SERVIO			
tope :	Define technical requirements o design as per drawing N° 954			
1	Contract and			
5				
1	AND COL			
	See and	THE OWNER WATER	-	
	A AN AN AN	ST. Barris	-Ar	
	and the second	1		
		and the second	-	
		2 AB		
100	10pe		-	
		1		

JOB NO.:FPE1009 , FLUID CONTROL EUROPE, FRANCE P.O. IE150421B Year : JUNE 2015END USER:PROJECT IN ALGERIAPROJECT:ALGERIA WELL HEAD INJECTION SAND FILTRATIONPRODUCT:8 NOS X VERTICAL SAND FILTERS IN MOC AISI 4130 WITH 24 "SHELLPROCESS CONDITIONS:INJECTION WATER 10000 PSIG, 177 DEG. CHYDROTESTING AT 15000 PSIG (1000 BAR)INSPECTION / CERTIFICATION:STAGE & FINAL INSPECTION RELEASE BY BVIS WITH CE/PED









#### PRODUCT RANGE (OXYGEN GAS-WATER SEPARATOR FOR NASA SPACE PROGRAM )

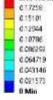


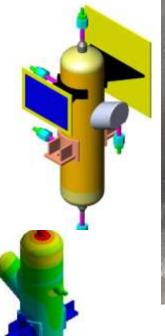


Title: Specification: Phase Separator for Regenerative Fuel Cell Application

PROJECT: Regenerative Fuel Cell (RFC)

B: Static Structural Hydro Test Total Deformation Type: Total Deformation Unit rum Time: 1 0.19410 Max







JOB NO.:FPE1383 , ENGINEERED FILTRATION INC., USA Year : JUNE 2019END USER:NASA , GLENN RESEARCH CENTRE, OHIO, USAPROJECT:REGENERATIVE FUEL CELL(RFC) FOR MARS PROGRAMPRODUCT:1NO. X CYCLONE SEPARATOR FOR OXYGEN- WATER SEPARATIONPROCESS CONDITIONS2750 PSIG / 60 DEG.C , OXYGEN + WATERINSPECTION / CERTIFICATION:ASME U DESIGNATOR BY ABS









#### PRODUCT RANGE (VERTICAL COALESCER WITH SEG4LOCK QOC)









Honeywell UOP

**UOP Process Plants Specification** 9082718-404-00-TD-00-UOP R00 FEED COALESCER CUM KO DRUM PROJECT SPECIFICATION ITEM NO.: 406-LZ-0002-V08

L	JOB NO.	FPE1655 , PALL INDIA PVT.LTD., P.O4505989451 Year : OCTOBER 2023
L	END USER	IOCL, PANIPAT
L	PROJECT	IOCL PANIPAT RECOVERY MAX PROJECT
L	PRODUCT `	1 NOS X FEED COALESCER KO DRUM ,SHELL 20", INLET/OUTLET 6" NB CL.300
L	PROCESS CONDITIONS	HYDROGEN GAS 27.5 KG/CM2G / 120 DEG. C
L	HYDROTESTING AT	45KG/CM2G I
	NSPECTION / CERTIFICATION	STAGE & FINAL INSPECTION RELEASE BY ASME AI-TUV NORD, THYSSEN KRUPP/LRIS





FLASH POINT EQUIPMENTS PVT. LTD. | Filtration | Separation | Air Elimination | Metering Skids for Oil & Gas





## SPECIAL COMPONENTS & SYSTEMS ( CONVENTIONAL, NUCLEAR POWER & ALLIED SYSTEMS)



Seal Cooler for a Nuclear Plant Pump



Skid Mounted Solar Cooling System for an experimental R&D Project in Australia



Welding work on Nuclear Shutdown cooling Pumps





Large Fabricated components for Nuclear Pump

Duplex Filters for a compressor station



ASME"U" PULSATION

**DAMPENER VESSEL** 



Upstream wellhead Liquid Filter – Woking Pressure 10000 psig in special construction AISI 4130





**Rubber lined vessel** 

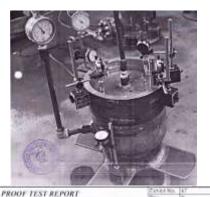
for an FPSO





### **PRODUCT RANGE ( QUICK OPENING CLOSURES)**





FLASH POINT EQUIPMENTS PVT. LTD Test Report No. · PPEPLIFTH- 001 Date - 25.08.2214 last Point Equi ents Pvt. Ltd., Pist Na. (3-35, WISC Cruikan Industrial Area Phase - IE, YES **First Climitated Re** Nighojo, Tal. Khadi. Pure, Mahanashira 410801, India ABU antification of Authorization No.8 Heap: Agamera 30142 December 27, 2014 Tiate of Expire Oats of Smith 35.06.3014 ASIME See, VIA Die 1 Fol 2013, MD-1900 101 Int. Displaceme restruction Code & Markens Teal Method 06-101 Management Teel Proof Text Processes to Na FPEPL/PROOF TESTIOT, Res. 8 Quick Operang Classes Ramp of Fast PREPLAY/DROUT REV 3 Highly Test Property's Per-



Conflication
We certify that the Quick Opening Closers, Sile 12"HB Class 600, Model No & Settal No: as mendioned above, is
proof bested in compliance to UG-19 (i) & U-1110(i) of ABE Section VBI Div 1, Edition 2013 and the MARP
established is 1012.82 pei (49.91 barg)

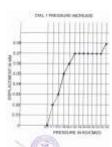


BALL

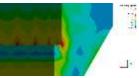
Sign & Data

beithin-Charge Still (4









**Horizontal Quick Opening Closure(SEG4LOCK-HH)** 







k



dhaii 2

Sim & Date





utity Erge

Sign & Date

### CERTIFICATE OF CONFORMITY OF SEG4LOCK-V & FLEXB-LOCK QUICK OPENING CLOSURES WITH **RESPECT TO RELEVENT ESSENTIAL SAFETY REQUIREMENTS OF PED 2014/68/EU ANNEX.1**

DNV

Ties to to perify that the peak-st(s) Component

STATEMENT OF CONFORMITY

• OUR QUICK OPENING CLOSURES **MODEL SEG4LOCK-V AND FLEXB-LOCK-H** HAVE BEEN ASSESSESED IN NOVEMBER 2022 BY DNV, NORWAY WITH RESPECT TO THE RELEVENT ESSENTIAL SAFETY REQUIREMENTS ( ESR'S) GIVEN IN ANNEX. I OF EU DIRECTIVE 2014/68/EU ON PRESSURE EQUIPMENT AND FOUND TO COMPLY.

•THE ASSESSMENT BY DNV DESIGN TEAM AND SURVEYORS INCLUDED VERIFYING MANUFACTURE / FINAL ASSESSMENT OF THE QOC'S IN LINE WITH MODULE D1





-				
	D	N	V	

Staturnent No. 345.5-3-15738 Bun B

- 34	4.5-3	- 6/67	196.	Ber/

Revision	Description .	1ssue Date
6	Grignal assessment 345.1-3 (20730 rps.0)	2629-11-22

Products covered by this Statement: Assessment including working menufacture/final sevenment (in the web Notale 25 procedury) has been carried out by 25% As India Revect, ref. such report dated 2023-11-10 for the product(s) based laters.

Product Nerve	Product Description	Applied Product Std.
Pressare Companients	Duick Deaming Classing (Vertical) Sinci 54" x 1584, 9004, 6884 DOC SEGALDON-4-244800-10 DAVIT THPE 65	ASHE Sect. 1011. 1014 1 Ed. 2021
	Quick Operang Chemine (Banal Lank Yoje Hortzental) Nov: 36" x 155%, 3004, 4058 (05) FLBME-COCK OF 36 46(2) 11-481	

Applications/Limitations

This Support of a relation to standards incorribut above. Other standards or iteratives, registrate again.

Terms and conditions

The statement is subject to the following terms and conditions: - The statement is only solid for the production index alone

The following may render this statement invalid + Changes III the steage or construction of the product(2)

Conformatly declaration and marking of product The featurement and not affective (E mark to the company) and shall not share up to fill declaration of conformity. However, the Handactane shauld intervage a Company Confidence or operating in VED Guideline (C-1).







FLASH POIN EQUIPMENTS PVT. LTD.



#### **PROOF LOAD TESTING OF SEG4LOCK-V & FLEXB-LOCK QUICK OPENING CLOSURES TO ASME SEC.VIII DIV.I**

• WE HAVE CONDUCTED PROOF LOAD TESTING ON OUR QUICK OPENING CLOSURES 12" CL.600 BY THIRD PARTY INSPECTION AGENCIES (HSB) AS PER **REPORTS PROVIDED ALONGSIDE.** 

•PROOF TESTED QOC'S WERE FOUND TO COMPLY WITH UG-19( C) & UG-101(O) **OF ASME SECTION VIII DIV. 1-2013** 

1355		PROOF TEST R			Exhibit No. Rev.	47 0
'o'o'	FL	ASH POINT EQUIPME	INTS PVT.	LTD	Date	01,08.2014
Proof Test	Report No: - FPEPL/PT	R-001	Date:-	25.08.2014	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	tore description
Tes	it Conducted By.	Flash Point Equipments Pvt Nigho)e		. G-20, MIDC Chakan Indu Pune, Maharashtra 41050		ase - III, Villag
Cartificato	in of Authorization No &	38152 December		Insp. Agency:		ABS
line en fi	Date of Expire	38152 December 27, 2014		Date of Test:	25.08.2014	
Construction Code & Reference :		ASME Sec VIII Div 1 Ed 2013, UG-19(c), UG-101		Test Method	UG-101 (o). Displaceme Measurement Test	
Proof Test Procedure Ne :		FPEPL/PROOF TEST/01, Rev. 0		The second second	Quick Opening Closure 12"NB Class 500	
Hydro Test Procedure No :		FPEPL/HYDRO/01 REV 3		Name of Part		
D	rawing Number	QOC-FPFILV2-SH-12-4A600 EPM-RIL-DRESSER-1		Material of Construction	s	A 105
	Model No	SEG4LOCK-V-12-CLASS40 TYPE32	0#-10-DAVIT	Serial No	FP	E 932/3

established is 1013.93 psi (69.91 barg)



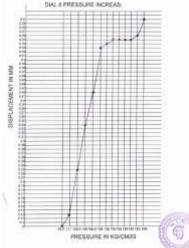
Warr Design In-Charge 25 # inn & Date

Witnessed & Accepted By Authorized Inspector Sign & Date













#### PROOF LOAD TESTING OF SEG4LOCK-V & FLEXB-LOCK QUICK OPENING CLOSURES TO ASME SEC.VIII DIV.I

•AGAIN IN 2021 WE HAVE CONDUCTED PROOF LOAD TESTING ON OUR QUICK OPENING CLOSURES SIZE 22" CL. 900 BY THIRD PARTY INSPECTION AGENCIES ( ABS) AS PER REPORTS PROVIDED ALONGSIDE.

•PROOF TESTED QOC`S WERE FOUND TO COMPLY WITH UG-19( C) & UG-101(O) OF ASME SECTION VIII DIV. 1-2019

1382			PROOF TEST REP			Rov 0
	FLASH POINT EQU			RENTS P	VT. LTD	Cate 153.10.2020
Proof Test Report No: - FPEPL/PTR- 002 Date:			10-08-21			
7 wel Cond	unted By:				Plot No. G-20, MIDC Ch Mathanashtra 410501,	akan Industrial Area Phase - III India
U Certification of Authorization No & Date of Expire		38162	-		Inst Agency	ONV
				Clate of Yest	10-Aug-21	
Construction Gode & Reference:		ASME Bac VIII Div 1 Ed 2018, UG- 19(4), UG-101		Test Method:	UG-101 (o), Displacement Measurement Test	
Proof Test Procedure No :		FPEPL/PROOF TEST/02, Rev. 0		Name of Part	Quick Opening Closure - 22"QOC x CL.900	
Hydro Test Procedure No		FPEPLINYDROIDT REV 6				
Drawing Number		GOC-SEG4LOCK-V-32A888-10-FPE 1200 HEV G		Material of Construction	5A 360 LF2 CL 1	
Model No :		BEGRLOCK-V-22AR008-10		Serial No	PPE 1303/1	
Elent TH	VE		12,11 PM		END TIME	3.35 PM
			1	Certificat	lion	

We centify that, the Cuick Opening Closure - 22"GOC x CL.800, Model No & Serial No as mentioned above, is successfully proof tested in compliance with ASME Sec VIII Div 1 Ed 2019, UG-19(c), UG-101 and the MAXP established is 168.35 harg



shibi No. 4 PROOF TEST REPORT 8 FLASH POINT EQUIPMENTS PVT. LTD 13.10.2020 Ciarbe. Date:- 10-08-21 Proof Test Report No: - FPEPU/PTR- 002 Before Test After Test Test 25.5-Outer Discumference Body Metal Temperature mwir Side 1781 5781 1781 during Proof Test 26.2°C (mm) ipper Side 1421 1125 1025 (1) No pressure drop / leakage was observed at test pressure 395 kg/cm\* 5475.566 peig 5475.886 psig (2) No Permanent, deformation observed at test pressure 385 kp/cm\* Unit Conversion Calculation as per Appendia GG of ASME Sec VIII Div 1 Ed 2013 0.06894757 tak Thg = 0.01 pei = 0.0008948 Nimm1 = 0.00689488" 0.1018088 0.00070284 legimm1 1N= 0.101837 = 0.0752847 kulter/ **Calculations & Test Results** Maximum Allowable Working Pressure at Test Temperature as per UG-101 (0) (5) (-0) (-1) 0.5\*5475 8859\*(70000)(70005+5000) 2555.46 proj 0.50 3<sub>M</sub> = 5000 178.19 Dars H + hydrostatic test pressure coincident with the proportional limit of the weakest element office companient part leated Whene, Sp = specified minimum tensile strength for the material used at room temperature Maximum Altowable Working Pressure at Design Temperature as per UG-101 (s) 2558.46 120015.2/20015.25 2555.44 polo Do a 176.18 Darp Pt + maximum allowable working pressure at test temperature Where, Sir maximum allowable stress value for the motorial used at the design temperature 32 < maximum altowable stress value for the material used at the test at test temperature Ratio as per UG-101 III Ratio + (148.5-2)\*1)(48.5\*1) 0.96 it-sl/e 2.4 minutes Processes of the material of the westeral point 48.5.000 Where. C + silowance added for contoxion, entation, and abrasion 2 mm ry or 1 for my well applicates A 2 for flat or resarie that such part Maximum Allowable Working Pressure Established by Proof Test = 1555.46 2450.08 8.96 paig Po \* Ratio as per UG-101 (i) 176.19 168.93 0.96 barg













# Vertical QOC (SEG4LOCK-V)



### PRODUCT RANGE ( QUICK OPENING CLOSURES)



1000	BV design review status 11/03/2016		11 Mar 2018
(83)	Marine Division	C Har	Tel OPPLIABORE
1997	SV Hug No. 154732.EQPTONO12 Project: Galak appening chanars In		
COLUMN 1	Manufacturer Dugartie Ourse - Flack Pariel Exceptionals FV7.170		

Hackinsvy - Drawings					
Drawing No	Res.	Title	Comment		
SE04.0CH-V 36A3006-11-FPE 1828-005		Quark Opening Cissure: 38" GOC ± CL 200	Overal		
7959%/15-16/PD	121	ITP (GAP 15-800)			
SOC-ASME- 36A300	0	DESION GALOULATION	Greed		
SEGALOCK-V PARIOB 11-FPE 1008-005 (2)	0.	Quolik opening interare 36° QOC x 0(306	CRewl		





EGINA FPSO











### PRODUCT RANGE ( QUICK OPENING CLOSURES)



JOB NO. : FPE939 , CAIRN INDIA RAJASTHAN P.O. 4500026843 Year : MAY 2015 END USER : CAIRN INDIA RAJASTHAN PROJECT : FILTERS FOR PRODUCED WATER INJECTION PRODUCT : 15NOS X VERTICAL QUICK OPENING CLOSURES SEG4LOCK-V SIZE 20"CL. 900 SUITABLE FOE PR. 137 BAR/ 120 DEG.C PROCESS CONDITIONS : WATER 137 BARG, 120 DEG. C INSPECTION / CERTIFICATION: ASME U STAMPED BY ABS









### PRODUCT RANGE (QUICK OPENING CLOSURES)





JOB NO. : FPE939 , CAIRN INDIA RAJASTHAN P.O. 4500023788 Year : JUNE 2014

- END USER : CAIRN INDIA RAJASTHAN
- PROJECT : FILTERS FOR PRODUCED WATER INJECTION

PRODUCT : 3NOS X VERTICAL QUICK OPENING CLOSURES SEG4LOCK-V SIZE 20"CL. 900 SUITABLE FOE PR. 137 BAR/ 120 DEG.C PROCESS CONDITIONS : WATER 137 BARG, 120 DEG. C INSPECTION / CERTIFICATION: ASME U STAMPED BY ABS









# Horizontal QOC (SEG4LOCK-H)



### PRODUCT RANGE (QUICK OPENING CLOSURES)





- JOB NO. : FPE887 , CONTROLPLUS P.O. 1813000250 Year : AUG. 2013
- END USER : HPCL( HINDUSTAN PETROLEUM) & MOTT McDONALD
- PROJECT : PIG LAUNCHERS & RECEIVERS FOR HPCL- MHBM- LPG PIPELINE
- PRODUCT : 8NOS X HORIZONTAL QUICK OPENING CLOSURES SEG4LOCK-H SIZE 16",18",20"& 24"CL. 600 SUITABLE FOE PR. 100 BAR/ 65 DEG.C , MOC SA 694 GR. F65 PROCESS CONDITIONS : LPG 100 BARG, (-)29 TO 65 DEG. C
- PROCESS CONDITIONS : LPG 100 BARG, (-)29 TO 6 INSPECTION / CERTIFICATION: DnV



हेन्द्रस्तान पेट्रोलिया







### PRODUCT RANGE (QUICK OPENING CLOSURES)







JOB NO. : FPE1003 , HOLTEC ASIA P.O. 29072015/085 Year : JULY 2015

- END USER : GODREJ & BOYCE , VIKHROLI
- PROJECT : 2MW COAL FIRED POWER PLANT, PUNTA CATALINA, DOMINICAN REPUBLIC

PRODUCT : 12 NOS X HORIZONTAL QUICK OPENING CLOSURES SIZE 24"CL. 150 SUITABLE FOE PR. 10 BAR/ 90 DEG.C PROCESS CONDITIONS : CONDENSATE 150PSIG, 90 DEG. C

INSPECTION / CERTIFICATION: CUSTOMER INSPECTION









## PRODUCT RANGE ( QUICK OPENING CLOSURES)





**GSPL India Gasnet Limited** 





JOB NO.:FPE1304 KALPATARU POWERP.O2300118598 Year : MAR. 2020END USER:GSPL INDIA GASNET LTD.( GOGL)PROJECT:MEHSANA BATHINDA PIPELINE PROJECT PHASE-IIPRODUCT:4 NOS X HORIZONTAL QUICK OPENING CLOSURES SIZE 36"CL. 600 & 18" CL.600 SUITABLE FOE PR. 98 BAR/ 65 DEG.CPROCESS CONDITIONS:NATURAL GASINSPECTION / CERTIFICATION:ASME U & DNV-GL INSPECTION







#### Vertical Quick Opening Closure(SEG4LOCK-V)



RUA CHRISTIANO KILMEYERS, 819 NOVA ODESSA - SP - 13460-000 Tel.: +55.19.2127-9400 Fax: +55.19.2127-9401



FPE1417 , METROVAL, BRAZIL P.O. 21/000111 Year APRIL 2021 JOB NO. END USER : **CELBA BARCARENA, BRAZIL** PROJECT : **PIG TRAPS FOR NATURAL GAS** PRODUCT : 3NOS X VERTICAL QUICK OPENING CLOSURES SEG4LOCK-V SIZE 28"CL. 600 SUITABLE FOE PR. 95 BAR/ 80 DEG.C PROCESS CONDITIONS : NATURAL GAS 95 BARG, 80 DEG. C INSPECTION / CERTIFICATION: ASME U STAMPED BY ABS









#### Vertical Quick Opening Closure(SEG4LOCK-V)





VANASA MULTIGAS	1
Engenharia Industria e Comércio Ltda	

PURCHASE ORDER	
DATE	Aug.5,2022

JOB NO. :	FPE1514 ,VANASA MULTIGAS, BRAZIL P.O. 600313 Year : AUG 2022
END USER :	PETROBRAS , BRAZIL
PROJECT : I	FILTERS FOR NATURAL GAS STATION
PRODUCT : 2	NOS X VERTICAL QUICK OPENING CLOSURES SEG4LOCK-V SIZE 20"CL. 300 SUITABLE FOE PR. 47 BAR/ 80 DEG.C
PROCESS CONDIT	FIONS : NATURAL GAS 47 BARG, 80 DEG. C
INSPECTION / CE	RTIFICATION: ASME U STAMPED BY ABS









#### Horizontal Quick Opening Closure(SEG4LOCK-H)



Arabian Industries LLC - GCC Branch - Abu Dhabi 1 P.O. BOX: 39646, ICAD II, Plot No.: 16AR5 Mussaffah, Abu Dhabi, U.A.E. Tel: +971 26506152, Fax: +971 26396155 License No. IN-1002415





Procurement under Project : 18 Nos of Pig Trap for BOC Majnoon (P&M) project, KBR Iraq.

JOB NO. : FPE1403 & 1404 , ARABIAN INDUSTRIES ABU DHABI P.O. 20-210000186-00 Year : AUGUST 2021 END USER BOC MAJNOON (P&M) PROJECT KBR , IRAQ PROJECT 18 NOS OF PIG TRAPS FOR BOC MAJNOON PRODUCT : 18NOS X HOROZONTAL QUICK OPENING CLOSURES SEG4LOCK-H SIZE 32"CL. 600, 20" CL. 600, 18" CL.600 SUITABLE FOE PR. 95 BAR/ 85 DEG.C PROCESS CONDITIONS : SOUR CRUDE OIL 95 BARG, 85DEG. C INSPECTION / CERTIFICATION: ASME U STAMPED BY ABS









#### Horizontal Quick Opening Closure(SEG4LOCK-H)



Pall (Malaysia) Sdn. Bhd. (154585-K) Level 29-01, PJX-HM Shah Tower No. 16A, Persiaran Barat 46050 Petaling Jaya, Selangor, Malaysia

Date: Project: LOA No : Amdt No.: 03<sup>rd</sup>-Feb-2023 Scarborough FPU Development Project LOA-002\_21.000729\_BSA 00



## MCDERMOTT

JOB NO. : FPE1562 , PALL CORPORATION , MALAYSIA P.O. LOA-002-21-000729-BSA Year : FEB.2023

END USER : PALL CORPORATION , MALAYSIA

PROJECT : LEAN/RICH MEG FILTERS FOR SCARBOROUGH FPU DEV. PROJECT

PRODUCT : 6NOS X HORIZONTAL QUICK OPENING CLOSURES SEG4LOCK-H SIZE 16" & 8" CL. 150 SUITABLE FOE PR. 16.4BAR/ 70DEG.C MOC SA 182 F316L

PROCESS CONDITIONS : RICH/ LEAN MEG 16.4 BARG, 70 DEG. C

INSPECTION / CERTIFICATION: ASME U STAMPED BY ABS











CECO Environmental Middle East AU Gold Tower, Floor 28, Office A Jumeirah Lake Towers Dubai 62435 United Arab Emirates

VENDORS DRAWING / D	OCUMENT REVIEW
1 - PROCEED     2 - PROCEED, CHANGE AS MOTT     3 - DO NOT PROCEED, CHANGE AS MOTT     4 - FOR INFORMATION ONLY     AUTHORIZATION TO PROCEED DOG     VENDOR OF ITS RESPONSEMENTY     CONTRACT, PARCHASE CROEP,     Peerless     A CECO Environmental frand	AS NOTED & RESUBNIT



JOB NO. : FPE1279 , CECO ENVIRONMENTAL ( PEERLESS) P.O. 60092 Year : OCTOBER 2019 END USER : GCB, ALGERIA PROJECT : GAS PIPELINE 12" TIGUENTOURINE ASSKAIFAF , ALGERIA PRODUCT : 2NOS X HORIZONTAL QUICK OPENING CLOSURES SEG4LOCK-H SIZE 20"CL. 600 SUITABLE FOE PR. 77 BAR/ 85 DEG.C PROCESS CONDITIONS : NATURAL GAS 77BARG, 85 DEG. C, MOC SA 350 LF2 INSPECTION / CERTIFICATION: 3.1 CERTIFICATE









#### Horizontal Quick Opening Closure(SEG4LOCK-H)





#### QUICK OPENING CLOSURE - 60" x 150# MODEL NO: SEG4LOCK-H-60A150-10-HH, MOC: SA 105N, SHELL CONN.: 1524 OD X10THK.

- Body material : Carbon Steel - (SA 105N) :ASME VIII Div.1, Latest Edition
- Design code
- Orientation : Horizontal
- Testing and inspection: AIA (ASME U Certification)

(Including Mechanical Safety Interlock)

#### PROJECT : PRODUCED WATER FILTER SKID 2401A/B FOR JEBEL ALI PILOT PHASE PROJECT ADNOC

JOB NO. : FPE1461 , ASCO FILTRI, ITALY P.O. LOI/VO22	-0408 YEAR : FEB. 2022
--	------------------------

- END USER : ADNOC PROJECT
- PROJECT : ADNOC
- PRODUCT : 2NOS X HORIZONTAL QUICK OPENING CLOSURES SEG4LOCK-V SIZE 60"CL. 150 SUITABLE FOE PR. 12.5BAR/ 85 DEG.C

PROCESS CONDITIONS : PRODUCED WATER 12.5 BARG, 85DEG. C INSPECTION / CERTIFICATION: ASME U STAMPED BY ABS









### **PRODUCT RANGE ( QUICK OPENING CLOSURES)**









FPE1199 ULTRAFILTER P.OUIPL/PO/1819/0660 Year : OCT.2018 JOB NO. CAIRN MANGALA- MPT WELLPAD NEW FILTER INSTALLATION PROJECT : PRODUCT : 12 NOS X VERTICAL QUICK OPENING CLOSURES SIZE 20"CL. 900 98 BAR/ 85 DEG.C **PROCESS CONDITIONS** : INJECTION WATER INSPECTION / CERTIFICATION: ASME U & TUV/SGS INSPECTION







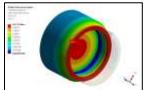


#### Horizontal Quick Opening Closure(FLEXBLOCK-H)









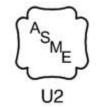




EPC for Dalma Gas Development Project

TR's Project No: 10400 COMPANY Project Nº: P4331433





JOB NO.	:	FPE1596 OSWAL INFRASTRUCTURE LTD. ( OIL ) YEAR : APRIL 2023
END USER		ADNOC , ABU DHABI
PROJECT		ADNOC – DALMA GAS DEVELOPMENT PROJECT
PRODUCT		5NOS X HORIZONTAL QUICK OPENING CLOSURES SEG4LOCK-V SIZE 30"CL. 1500 SUITABLE FOE PR. 171 BAR/ (-
)45		85 DEG.C
PROCESS C	οΝ	DITIONS : EXPORT GAS 155 BARG, 65DEG. C
INSPECTIO	N / (	CERTIFICATION: ASME U2 STAMPED BY TUV-NORD

тм







## PRODUCT RANGE ( PIG LAUNCHER/RECEIVER SYSTEMS)



JOB NO. : FPE1200 , IEL, BANGLADESH P.O. IEAPPL/GASMIN/FP-02/08-18 Year : JAN.2019

END USER : RURAL POWER PROJECT, BANGLADESH

PROJECT : GAS FIRED POWER PLANTMYMENSING ,BANGLADESH

PRODUCT : 1 NO EACH PIG LAUNCHER/RECEIVER SIZE 12X16"CL. 600 SUITABLE FOE PR. 93.3 BAR/ 60 DEG.C

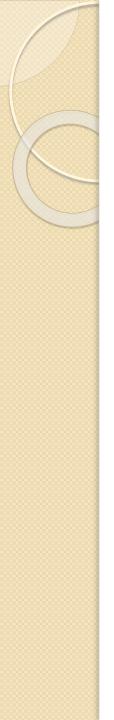
PROCESS CONDITIONS : NATURAL GAS

INSPECTION / CERTIFICATION: DnV INSPECTION RELEASE









## Horizontal QOC (FLEXBLOCK-H)



### **PRODUCT RANGE (NATURAL GAS HEATING)**





**INDIRECT FIRED WATER BATH HEATERS FP-IFWBH** 



SHELL & TUBE TYPE GAS HEATERS **FP-HUTHEX** 







FLASH POINT EQUIPMENTS PVT. LTD. | Filtration | Separation | Air Elimination | Metering Skids for Oil & Gas

TM





### PRODUCT RANGE (INDIRECT FIRED HEATERS)











JOB NO. : FPE926 , EMERSON PROCESS-REGULATOR DIVN. P.O. OP80718283 Year : APRIL 2014 END USER : UNITED POWER PLANT, ASHUGANJ, BANGLADESH PROJECT : FUEL CONDITIONING SYSTEM FOR NATURAL FIRED GAS ENGINES PRODUCT : 2 X INDIRECT FIRED WATER BATH HEATERS, HEAT CAPACITY 6.0 MMBTU , DESIGNED TO API 12K & ASME SEC.VIII DIV.1, COIL DESIGN 1200 PSIG / 100 DEG.C, GAS FLOW RATE 100 MMSCFD, GAS FIRING BY MAXON-HD-6"-60 NATURAL DRAFT BURNERS , MAXON GAS TRAIN AND HONEYWELL BURNER MANAGEMENT SYSTEM NFPA 86 COMPLIANT PROCESS CONDITIONS : NATURAL GAS 1200 PSIG, 65 DEG. C , 100 MMSCFD INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY dNV











### PRODUCT RANGE (INDIRECT FIRED HEATERS)









Kinyerezi II – 240 MW Gas Power Plant For Downstream Pipeline Project

JOB NO. : FPE1222 , HONEYWELL SOUTHERN AFRICA PTY.LTD.,P.O. 441337641 Year : DEC.2018

END USER : KINYEREZI II ,240 MW GAS POWER PLANT , TANZANIA

PROJECT : FUEL CONDITIONING & HEATING SYSTEM FOR NATURAL FIRED GAS ENGINES

PRODUCT : 2 X INDIRECT FIRED WATER BATH HEATERS, HEAT CAPACITY 1.75 MMBTU, DESIGNED TO API 12K & ASME SEC.VIII DIV.1, COIL DESIGN 97 BARG / 90 DEG.C, GAS FLOW RATE 48 MMSCFD, GAS FIRING BY MAXON-HD-4"-40 NATURAL DRAFT BURNERS, COMBUSTEX BURNER MANAGEMENT SYSTEM NFPA 86 COMPLIANT PROCESS CONDITIONS : NATURAL GAS 97 BARG, 65 DEG. C, 48 MMSCFD

INSPECTION / CERTIFICATION: STAGE & FINAL INSPECTION RELEASE BY dNV









### PRODUCT RANGE (INDIRECT FIRED HEATERS)





- JOB NO. : FPE1441 , HONEYWELL SOUTHERN AFRICA PTY.LTD., P.O. 4209293211 Year : FEB. 2022
- END USER : 718MW MEGHNAGHAT CCPP- RELIANCE
- PROJECT : NATURAL GAS HEATING SYSTEM FOR COMBINED CYCLE POWER PROJECT

PRODUCT : 3 X INDIRECT FIRED WATER BATH HEATERS, HEAT CAPACITY 6.12MMBTU , DESIGNED TO API 12K & ASME SEC.VIII DIV.1, COIL DESIGN 76 BARG / 85 DEG.C, GAS FLOW RATE 81 MMSCFD, GAS FIRING BY MAXON-HD-6"-60 NATURAL DRAFT BURNERS , COMBUSTEX BURNER MANAGEMENT SYSTEM NFPA 86 COMPLIANT

PROCESS CONDITIONS : NATURAL GAS 76 BARG, 85 DEG. C, 81 MMSCFD

INSPECTION / CERTIFICATION: ASME U CERT. FOR COIL, TPI SAMSUNG









### **PRODUCT RANGE ( SHELL & U-TUBE HEAT EXCHANGERS)**





JOB NO. FPE568, THERMAX INDIA P.O. 519153 Year : APRIL 2008 END USER : **DEEPAK FERTILISER & PETRO** PROJECT : 1X44.6 TPH FM BOILER NARURAL GAS HEATER PRODUCT : 1 NOS X HORIZONTAL SHELL & U **TUBE NATURAL GAS HEATER** PROCESS CONDITIONS : GAS 150 PSIG 40 DEG.C TO BE HEATED TO 85 DEG.C INSPECTION / CERTIFICATION: CUSTOMER **INSPECTION** 



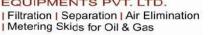


FPE1045, KSB PUMPS, PUNE P.O. JOB NO. • T21/4503332137 Year : DEC.2015 NPCIL-PUMP TESTING RIG END USER : **TESTING RIG FOR NPCIL SHUTDOWN** PROJECT : **COOLANT PUMP** PRODUCT : 1 NOS X HORIZONTAL SHELL & U TUBE COOLER PROCESS CONDITIONS : DISTILLED WATER 175 DEG.C TO BE COOLED TO 75 DEG.C USING RAW WATER 40 DEG,C HEAT TRANSFERRED: 18483879 BTU/HR **INSPECTION / CERTIFICATION: CUSTOMER INSPECTION** 





FLASH POINT EQUIPMENTS PVT. LTD.







### PRODUCT RANGE (SHELL & U-TUBE HEAT EXCHANGERS)





JOB NO. : FPE1060 , EMERSON REGULATORS, SINGAPORE

P.O. NO.: T21/4503332137 Year : DEC.2015

END USER : JURONG ENGINEERING LTD, SINGAPORE

PROJECT : GAS FIRED POWER PLANT IN MYANMAR

PRODUCT : 2 NOS X 8-PASS HORIZONTAL SHELL & U TUBE GAS HEATER

PROCESS CONDITIONS : NATURAL GAS 15 DEG.C TO BE HEATED TO 188 DEG.C USING WATER 335 DEG.C /240 BARG PRESSURE CLASS : CL. 2500# INSPECTION / CERTIFICATION: ASMEU2 BY ABS











### PRODUCT RANGE (SHELL & U-TUBE HEAT EXCHANGERS)











JOB NO. : FPE1081 , KSB PUMPS,PUNE P.O. 4503656738 Year :OCTOBER 2016 END USER : NTPC-PUMP TESTING RIG PROJECT : TESTING RIG FOR NTPC SUPERCRITICAL BOILER FEED PUMP PRODUCT : 1 NOS X HORIZONTAL SHELL & U TUBE COOLER PROCESS CONDITIONS : DISTILLED WATER 1100 M3/HR 40 DEG.C TO BE COOLED TO 37 DEG.C USING RAW

WATER 653 M3/HR 30 DEG,C HEAT TRANSFERRED: 3800 KW INSPECTION / CERTIFICATION: CUSTOMER INSPECTION









#### PRODUCT RANGE (SHELL & U-TUBE HEAT EXCHANGERS)





JOB NO. : FPE1227 , EMERSON, DUBAI4503656738 Year :MARCH 2019 END USER : TRIUMPH POWER & GAS, NIGERIA PROJECT : GAS POWER PLANT IN NIGERIA PRODUCT : 4 NOS X VERTICAL SHELL & U TUBE HEATER PROCESS CONDITIONS : NATURAL GAS AT 97.7 BARG/ 19 DEG.C TO BE HEATED TO 56.4 DEG.C USING WATER 80DEG,C HEAT TRANSFERRED: 6 KW INSPECTION / CERTIFICATION: ASME U CERTIFICATION BY ABS











# PRODUCT RANGE ( SHELL & U-TUBE HEAT EXCHANGERS- OIL COOLERS 8 PASS DESIGN )





JOB NO. : FPE1540 , EAGLE BURGMANN POHI/2022-23/HE/035 NOVEMBER 2022 END USER : SUNDYNE INTERNATIONAL SA PROJECT : NUMALIGARH REFINERY LTD.( NRL) PRODUCT : 4 NOS X HORIZONTAL SHELL & U TUBE OIL COOLER FOR BARRIER OIL COOLING – 8 PASS DESIGN PROCESS CONDITIONS : BARRIER OIL TO BE COOLED FROM 100 DEG.C TO 65 DEG.C USING WATER AT 35 DEG.C ,C HEAT TRANSFERRED: 20274 KCAL/HR INSPECTION / CERTIFICATION: 3.2 CERT. BY BVIS



























KSB

#### PAST EXPERIENCE IN MANUFACTURE OF COMPONENTS FOR MAIN COOLING PUMP RHR-200,RSR350, RSR 400 IN TAPP-3,4 KAPP-3,4 ,RAPP-5, 6 ,7 & 8, NP-8,9, GHAVP-1,2 NUCLEAR POWER PLANT )

Sr. No.	Equipment	Pump Type	Project	Size	мос	αŅ	Unit	End User/Project	Country- End Users	Consulta nt	Custome	Country- Custome	PO No.	PO date	C.D Date	Inspected By:	JOB No
1	Cooling Coli	8HIR 200- 480	NPCR TAPP 3 & 4	As per Drawing PSD 200118 Nev 1	Primary: 5A 376 Type: 323 Secondary: 3A 108-08 8 / 15 2062/ SA 516 GR 70		Ren.	NPCIL	INDIA	-	638 LTD	INDIA	355452 <b>8</b> 335453	5-5ep 02	30.502-02	KS8 / NPCIL	m
2	Distributor Cooling & Barrol	WETR 30/65	NPC-TAPS	As per Drawing (#20336A Rev 1 & (#201328 Rev 1	SA-515 GR 70	3	Nex. Each	NECL	INDIA	-	#381:1D	INDIA	263397, 25398	30-Det:02	15-Fet=03	KSB / NPCIL	122
3	Cooling Coll	RVM 80	NFCL	As per Drawing: PS6 30579 Rev 1	A2NE 19 316	in	Nos.	NPOL	INDIA	-	856 STD	INDEA	858640, 41	11-Ap+08	15-May-Ol	KSB / NPOL	128
4	Bearing Lieven, all Level tube, Motor lantern,	RVM 80	NPCL	As per Drawing: P56 20131 Rev 0, P56 20136 Rev 0, P56 30574 Rev0, P56 30144 Rev 1	15 2062 GR 8, SA 106 GR 8	10	Not. Each	NPCH	INDIA		456 LTD	INDIA	558390, 558391, 558394, 558395, 558396, 558397, 558398, 558393	3-Feb-03	34-May-03	KSR / HPOL	129
5	Motor Lawyen, Pump Lantern, Barrel, Distributur Lasting	WKTA/2	NPCIL KAIDA 3 & 4, SAP7 5 & 8	As per Drawing IP 17052 8.0P 17003, tp 17054, tP 17074, tP 17089	54 333 00 6 / 54 350 U77 / 54 538 08 70	338	No.	MPCIL	INDIA	1	458 cTD	INDIA	2	13	54	KSB/HPCIL	540
6	Seel Cooler	#H# 200 480	NPOL	An per DMD: 955 41513 REV 1	Primary: SA 376 Type 321 Secondary: SA 106 CM 6 / IS 2026		Bios.	MPCIL	INDIA	-	658110	INDIA	92394325	3-0ct-01	15 Mar-04	KS8/NPOL	156
7	Barrel & Distributor Looking	wxr58	NPOL	As Per drawing No: #20332 B & # 30366 C	54 515 GR 70 / 46 500 GR 8	184	hos	NPCIL	INDIA	-	#5811D	INDIA	352239, 352240, 112241	15-Aug-04	1-Nex-04	KS8 / NPOL	203
в	Meter Mood & Bearing Stand	458 350	NPCIL NP 5 (NAPP 5 & K)	As per Desking Net 1956 0224 Rev 5 1956 10040 Nev 9	54 515 (IR 70		Nes. Each	APCIL	INDEA	10	858170	івдья	576995, 576997, 579999, 577000, 577001, 577082, 577030, 577034, 577030, 577031, 577032, 577033, 577034, 577035, 577036, 577037,	6.0e::04	2-5ep-05	KS8 / NPCIL	225
9	Braing Larden, HP Cooler	R5A 400/2	NPCR, (KAPP 38, 4, RAPP 7 & 8)	Bearing Lantern: ID 2300 X ID 1401 X 1948 Lg x 25 even Thé HP Cooler (Primary): DD 38 X 5.4 Th/ HP Cooler (Secondary): 20"NB 501 30		18	Mos, Earth	NPCIL	MDIA	-	458 CTD	INDIA	127/4502242975 127/4502213672	07-03-13 30-05-13	29.07.13	KSB/ HPCIL	ю
-10	Mutter Stool, Pump Stool, Support Parma Juni Coster, Annular Casing	10/11 200- 480	NPCL (KAR9 38 4, 5699 7 & 8)	Notor Stool: OD GBD x 20 THA X 1904 L4 Pump Stool: OD 722 X 20 THA X 730 L8 Support Finame, NC 250 X 180 e 285 L Seal Cooler (Primary), OD 28 B a 4 ThA Seal Cooler (External any), OD 273 a 6.3 The 4 MA La Manual Casting, Drawing No- MM 501/20 Ran 4	Motor Storit SA 330 00 70 Purp Broot: La SL6 00 70 Basport Frame: 15:2003 E 250 00 A Seal Dooler (Storage) SA 376 TP 321 Seal Cooler (Society SA 333 OR E Arwalter Casing SA 309 GR LA / SA 333 06 6 / 3A 420 WPL 6	36	Wox. Each	NPEIL	INDIA		8384TD	INDIA	121/45122883.12 121/4512288454 31/4502127383 121/4502129585	06-03-2013 06-03-2013 07-05-2013 18-10-2012	29.02.13	KSO/ NEPCIL	344





#### FLASH POINT EQUIPMENTS PVT. LTD.

| Filtration | Separation | Air Elimination | Metering Skids for Oil & Gas





KSB

#### PAST EXPERIENCE IN MANUFACTURE OF COMPONENTS FOR MAIN COOLING PUMP RHR-200,RSR350, RSR 400 IN TAPP-3,4 KAPP-3,4 ,RAPP-5, 6 ,7 & 8, NP-8,9, GHAVP-1,2 NUCLEAR POWER PLANT )

Sr. No.	Equipment	Ритр Туре	Project	Size	MOC	Qty	Unit	End User/Project	Country- End Users	Consulta nt	Custome	Country- Custome	PO No.	PO date	C.D Date	Inspected By:	JOB N
11	Fabricated Besket Strainer	F#8-STR	Balance of Turbine Island Package for Kakraper 3 & 4 (BCMP)	Booster Purg Suction Strainer Of 26748 x 467168 Body Flenge	54 387 GR 22 CL2	•	Nes.	NFCI,	INCKA	2	K3817D	THE	1018 111/4503475468	02-06-13 & 03-05-2016	1 MV-16	838/ NPCIL/ DODSAL	1001
12	HP Cooler	R3H 350	RAPPS&6	Primery: 00 51.8 x 4 Thi: Secondary: 00 323.9 x 7.1 this x 1566 Lg	Primary: SA 312 Type 304L Secondary: SA 306 OR 8	i	Nex.	NPCR.	INCIA	7	#5817D	PACKA	4504060147	02-041-17	28.02.2018	KSB/ NPCIL	1199
19	HP Cooker	ння 200- 480	NPCIL (KAPP 3 & 4, KAPP 7 & 8)	Primary: DD 36.9 X 4 THK X 7650 L0 Secondary: Ø273 X 8.3 THK X 595 L0	Primary: 5A 376 TF 321 Secondary: 5A 335 GR 6	्व	No.	NPCK,	INDIA	-5	KSBLTD	INDIA	4504890529	14-Nos-19	15-Feb-30	KSB/ NPCIL	1288
34	Bearing Laritern	RSR 400/2	GHAVP 1 &	Bearing Lantson: ID 2300 X ID 1401 X 1948 Lg e 32 mm This	5 310-0ft 70	4	No.	APCIL	INDIA	-	KUSLTD	INDIA	4505118737, 4505118865, 4505118873, 4505138883	03-Mar-20	17-06-20, 14-12-20, 18-03-21, 17-06-31	#58/ NPCIL	1311
15	HP Coaler	R58 400/2	CHAVP1& Z	Primary: GD 26.9 X 4 THK X 20500 LG Secondary: GD 500 X 11 THK a 1133 LK	Primary: SA 375 TP 147 Secondary: SA 100 GR 8	<u>.</u>	Nos.	MPCK.	SIZIA	-	KSƏLTD	INDIA	4505345548	11-Nov-20	15-Dec-22	KSB/ MPCIL	1879
16	Fabriacted Holder	FAB-SAE	2718	As per Drawing U/01755984 Rev 1	SA 516 GR 70		No.	NPCIL.	INDIA		KSBLTD	INDIA	4505051540	25.02.3023	21-Mar-22	\$58/ NPCIL	1462
17	Hp Cooler	K5H 350	NPOL NF 8 & NP 9	Primary: DD 31.8 x.4 THX x 81750 LG Secondary: DD 328.9 x 7.3 THK x 1566 Lg	Frimary: SA 312 TP 304L Secondary: SA 306 GR B	t	Non.	MPCK.	INDIA	-	AS&LTD	INDIA	4506039329	5-May 22	17 Oct -12	KSRV NPCIL	3477



















JOB NO.:FPE1477 , KSB PUMPS & VALVES Year : 2000-2018END USER :NUCLEAR POWER CORPORATION OF INDIA LTD. (NPCIL)PROJECT :SEAL COOLER FOR RSR 350 MAIN COOLING PUMPPRODUCT :12NO. X SEAL COOLERPROCESS CONDITIONS150 BARG/ HEAVY WATERINSPECTION / CERTIFICATION:NPCIL INSPECTION



















JOB NO.:FPE843 , KSB PUMPS & VALVES Year : 2012-2014END USER :NUCLEAR POWER CORPORATION OF INDIA LTD. (NPCIL)PROJECT :SEAL COOLER FOR RSR 400 MAIN COOLING PUMPPRODUCT :24 NO. X SEAL COOLERPROCESS CONDITIONS 150 BARG/ HEAVY WATERINSPECTION / CERTIFICATION:NPCIL INSPECTION









#### 5,6,7&8 ,GHAVP-1,2 NUCLEAR POWER PLANT )

















JOB NO.:FPE226,843 ,844 , KSB PUMPS & VALVESYear : 2002-2020END USER:NUCLEAR POWER CORPORATION OF INDIA LTD. (NPCIL)PROJECT:MOTOR/PUMP LANTERN & BARREL FOR RSR 350/400 MAIN COOLING PUMPPRODUCT:48 NO. X LANTERNS & BARRELSPROCESS CONDITIONSINSPECTION / CERTIFICATION:NPCIL INSPECTION



KSB





## **PRODUCTS & SERVICES**

Design, manufacture, testing, commissioning & site services

- FABRICATED BASKET STRAINERS
- AIR ELIMINATORS & AUTOMATIC AIR VENTS
- QUICK OPENING CLOSURES

•

•

- GAS FILTERS , FILTER SEPARATORS & COALESCERS
- KOD VESSELS , SCRUBBERS , WELLHEAD PHASE SEPARATORS
- LIQUID & GAS FILTERING SKIDS
- **PIG LAUNCHING & RECEIVING SYSTEMS**
- INDIRECT FIRED HEATERS & HEAT EXCHANGERS
- **PRESSURE VESSELS & COMPONENTS FOR NUCLEAR POWER PLANTS**









### FLASH POINT EQUIPMENTS PVT. LTD.



#### THANK YOU





