

Include the interlock description in the PIDs.

ITEM No.	DATE	USER	APPROVED
21/2220601-SD-023	21/02/2023	B.Sukesh	B.Sukesh

JESA

PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	CONTRACT No. JESA JESA-4500004201-22
OTHER REFERENCE (tag,unit)	

DOCUMENT HISTORY & REVISION					
13-Sep-22	Piping and Instrumentation Diagrams (P&IDs)	Xiangli Gu	Jianhui Liu	Yunjuan Gu	6
03-Nov-22	Piping and Instrumentation Diagrams (P&IDs)	Xiangli Gu	Jianhui Liu	Yunjuan Gu	5
11-Oct-22	Piping and Instrumentation Diagrams (P&IDs)	Xiangli Gu	Jianhui Liu	Yunjuan Gu	4
16-Sep-22	Piping and Instrumentation Diagrams (P&IDs)	Xiangli Gu	Jianhui Liu	Yunjuan Gu	3
24-Aug-22	Piping and Instrumentation Diagrams (P&IDs)	Xiangli Gu	Jianhui Liu	Yunjuan Gu	2
30-Jun-22	Piping and Instrumentation Diagrams (P&IDs) (Mark QTE working aspects the color of text)	Xiangli Gu	Jianhui Liu	Yunjuan Gu	1
22-Jun-22	Piping and Instrumentation Diagrams (P&IDs)	Xiangli Gu	Jianhui Liu	Yunjuan Gu	0
DATE	Description	Revision	Subject	prepared by	Checked by

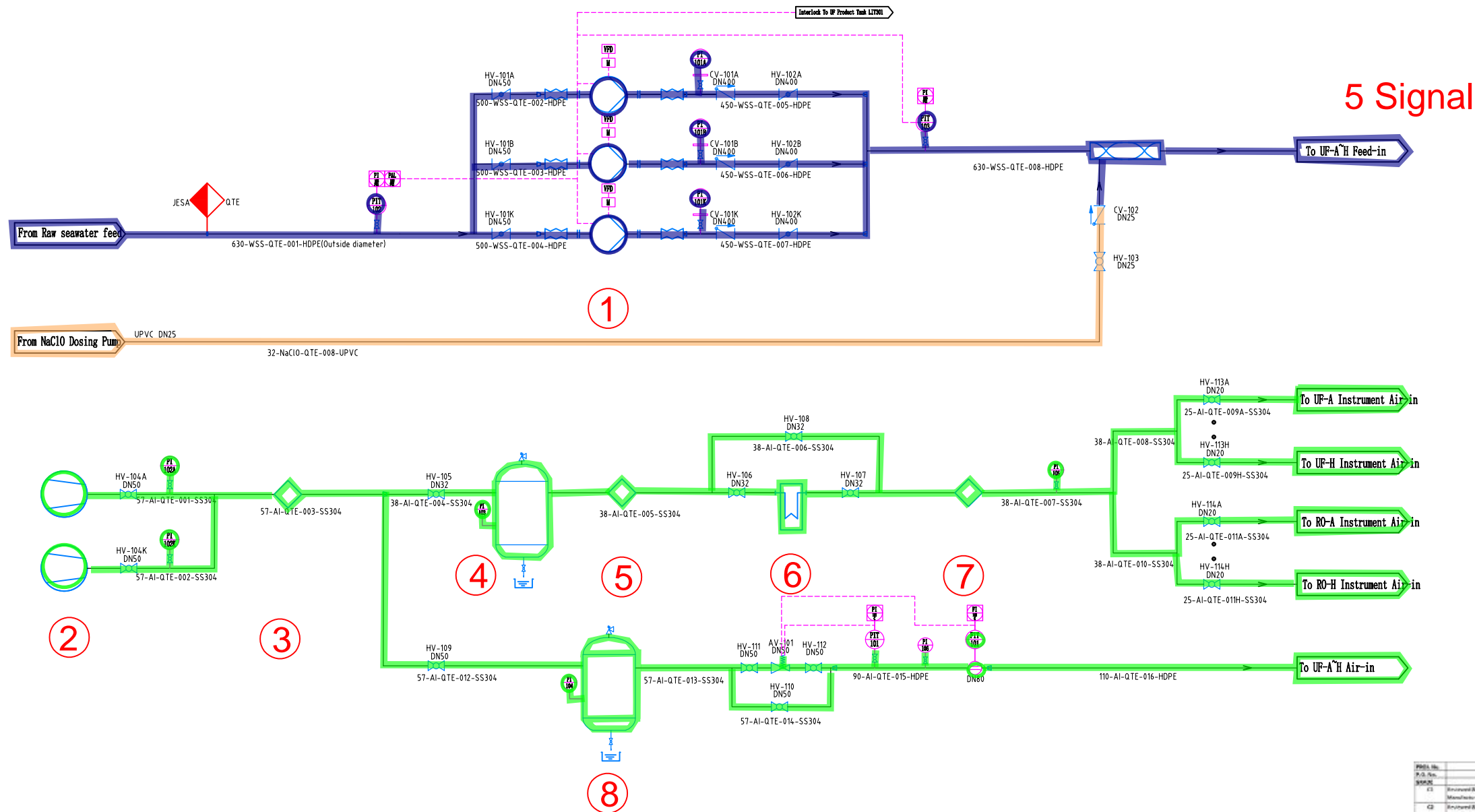
Mobile Desalination JORF					
DISCIPLINE			DRAWING TITLE		
DS			Piping and Instrumentation Diagrams (P&IDs) General View		
			VENDOR Drawing Number		
			QTE-220601-SD-023		
			JESA Drawing Number		
			QW223501-03-QTE-4500004201-DS-D156-00001		
			JESA S.A. SHORE 27 CASABLANCA NEARSHORE PARK 1100 BO AL QODS CASABLANCA, Casablanca		
			Project Number	sub Project	Sender Code
			QW223501	03	QTE
			Discipline Code	Doc Type	Number
			DS	D156	00001
			Rev		06

SHEET No.
1/8

DM-ISBL-QW223601-21-3001 SEA FEED WATER

DM-ISBL-QW223601-71-8001 B UF DOSING SYSTEM

DM-ISBL-QW223601-20-3000 INSTRUMENT AIR



ITEM No.	DATE	DATE	DATE
1			
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8	406-A-C-03	UF Process Air Tank	5m3	CS	Set	1	Shenjiang
7	406-A-S-03	Air Filter	Oil content<0.003ppm		Set	1	Selected
6	406-A-E-01	Cold Dryer	6.6m3/min		Set	1	Bolaite
5	406-A-S-02	Air Filter	Oil content<0.01ppm		Set	1	Selected
4	406-A-C-02	Instrument Air Tank	1.5m3	CS	Set	1	Shenjiang
3	406-A-S-01	Air Filter	Oil content<0.1ppm		Set	1	Selected
2	406-A/K-C-01-M	Air Compressor	10m3/min,55kW		Set	2	Bolaite
1	006-A/B/K-P-01-M	UF Feed Pump	1015m3/hx28mx90KW,2D1S	NiAlBz/Duplex	Set	3	Desmi
NO.	Equipment Coding	Item	Description	Material	Unit	Qty.	Brand

Main Equipment List

DOCUMENT HISTORY & REVISION

NO.	DATE	Description	Revision	Subject	prepared by	Checked by	Approved by	Rev
1	13-Sep-22	Piping and Instrumentation Diagrams (P&IDs)			Xiangli Gu	Jianhui Liu	Yunjun Gu	6
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6	30-Jun-22	Piping and Instrumentation Diagrams (P&IDs) (Mark QTE working aspects the color of text)			Xiangli Gu	Jianhui Liu	Yunjun Gu	1
7	22-Jun-22	Piping and Instrumentation Diagrams (P&IDs)			Xiangli Gu	Jianhui Liu	Yunjun Gu	0

PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	CONTRACT No. JESA JESA-4500004201-22
OTHER REFERENCE (tag,unit)	

DISCIPLINE		DRAWING TITLE	
DS		Piping and Instrumentation Diagrams (P&IDs) UF Feed Water System & Air Process	
		VENDOR Drawing Number	
		QTE-220601-SD-023	
		JESA Drawing Number	
		QW223501-03-QTE-4500004201-DS-D156-00001	
		JESA S.A.	
		SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL OODS CASABLANCA, Casablanca	
JESA DRAWING NUMBERING SYSTEM		Project Number	sub Project
		QW223501	03
		Sender Code	QTE
		PO	4500004201
		Discipline Code	DS
		Doc Type	D156
		Number	00001
		Rev	06

DM-ISBL-QW223601-71-8001 A UF DOSING SYSTEM REV A

DM-ISBL-QW223601-20-3000 INSTRUMENT AIR REV A

DM-ISBL-QW223601-21-3001 SEA FEED WATER REV A

DM-ISBL-QW223601-48-7001 UF BACK WASH REV A

DM-ISBL-QW223601-30-6000 UF PRODUCT TANK REV A

DM-ISBL-QW223601-58-7004 CIP SYSTEM FOR RO & UF SYSTEM REV A

DM-ISBL-QW223601-40-7000 A UF A CONTAINER SYSTEM REV A

DM-ISBL-QW223601-41-7000 B UF B CONTAINER SYSTEM REV A

DM-ISBL-QW223601-42-7000 C UF C CONTAINER SYSTEM REV A

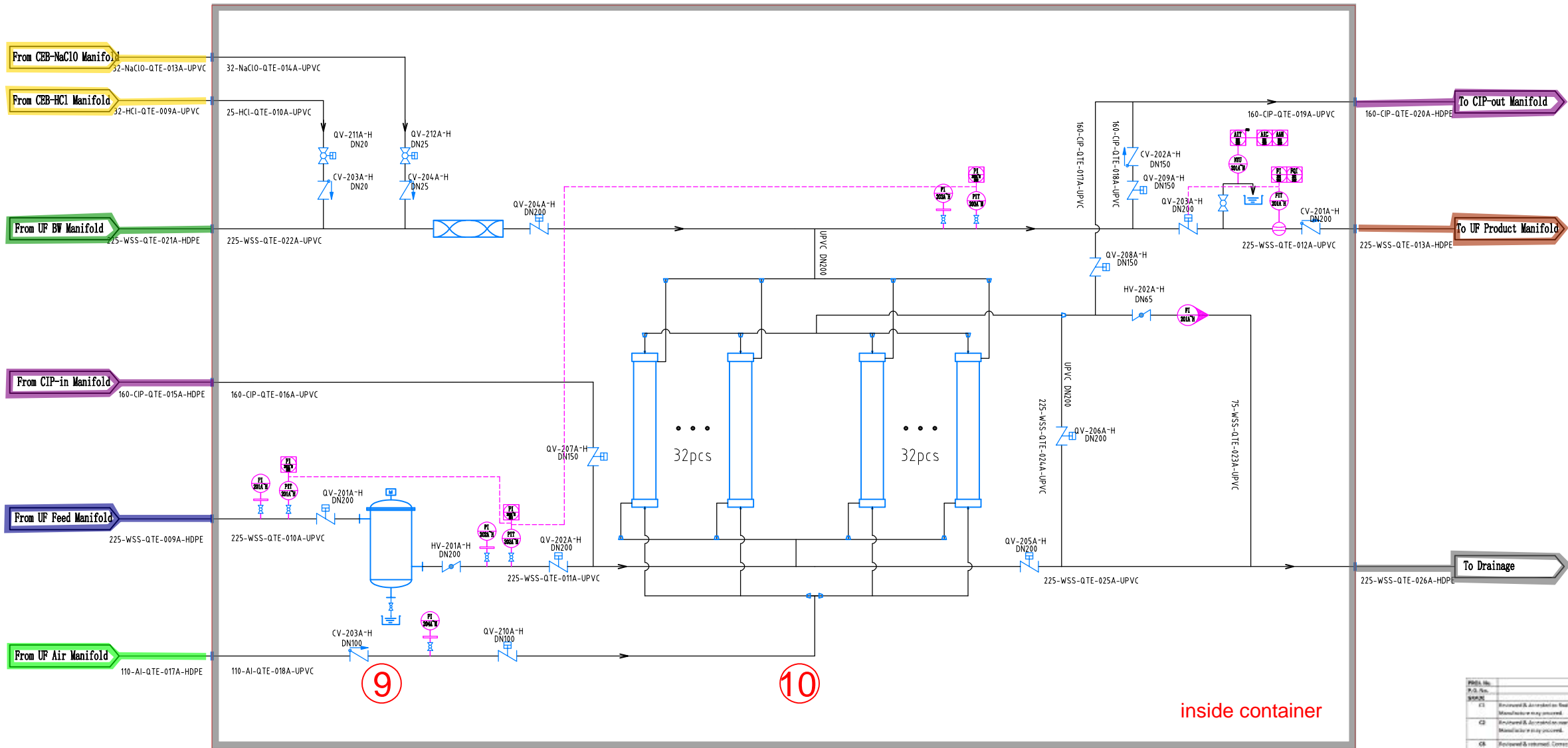
DM-ISBL-QW223601-43-7000 D UF D CONTAINER SYSTEM REV A

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DM-ISBL-QW223601-45-7000 F UF F CONTAINER SYSTEM REV A

DM-ISBL-QW223601-46-7000 G UF G CONTAINER SYSTEM REV A

DM-ISBL-QW223601-47-7000 H UF H CONTAINER SYSTEM REV A



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10	006-A~H-S-02	UF Train	Includes 64xUFmembranes	PVDF	Set	8	
9	006-A~H-S-01-M	Self-clean Filter	Screen, 100um, 250m3/h	Duplex/CSRL	Set	8	Bownt
NO.	Equipment Coding	Item	Description	Material	Unit	Qty.	Brand

Main Equipment List

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23-Jun-22	Piping and Instrumentation Diagrams (P&IDs)	Xiangli Gu	Jianhui Liu	Yunjuan Gu	0		
DATE	Description	Revision	Subject	prepared by	Checked by	Approved by	Rev

PROJECT LOCATION : JORF LASFAR MAROC

PROJECT DESCRIPTION : Mobile Desalination JORF

PROJECT NUMBER : QW223501

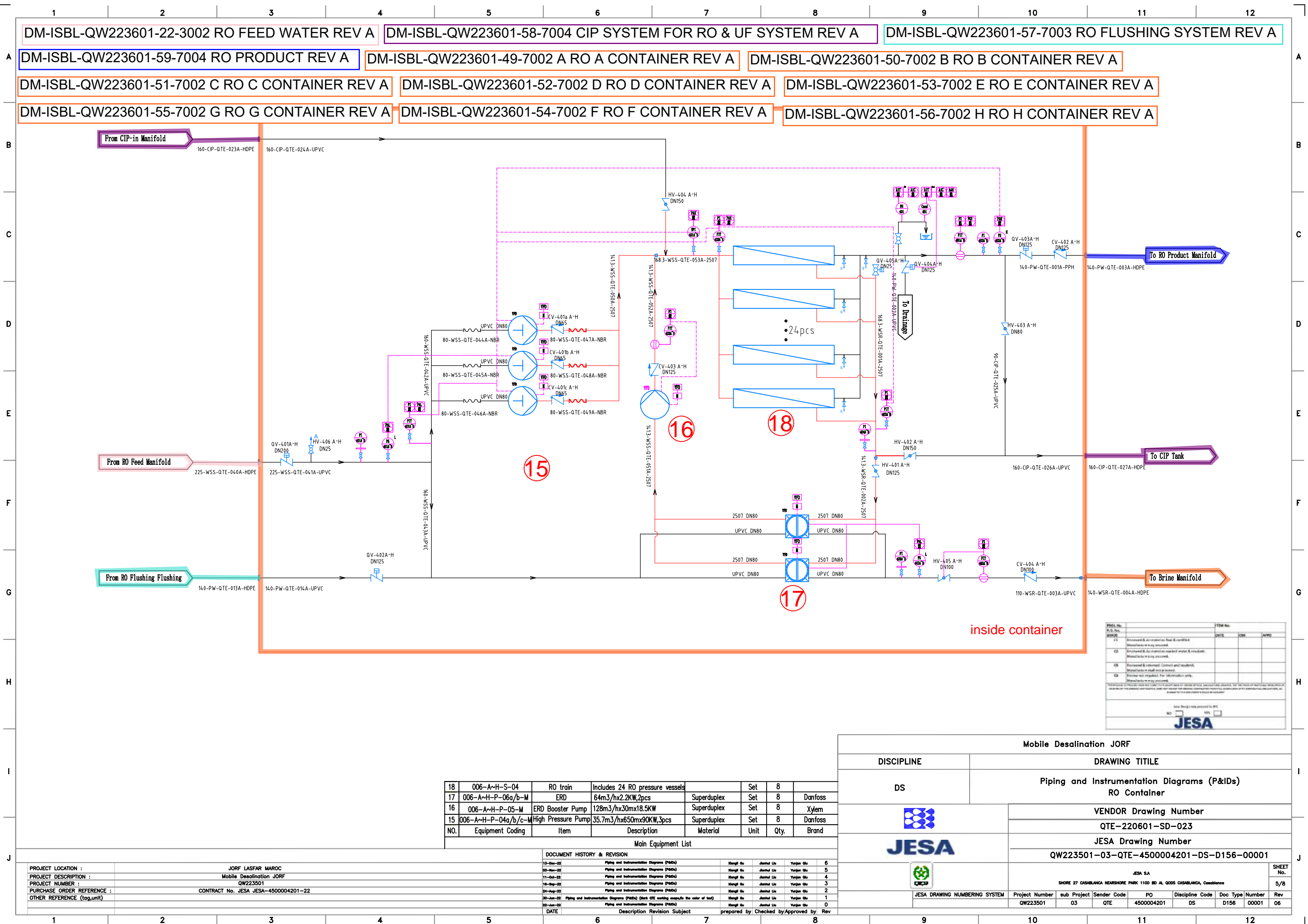
PURCHASE ORDER REFERENCE : CONTRACT No. JESA JESA-4500004201-22

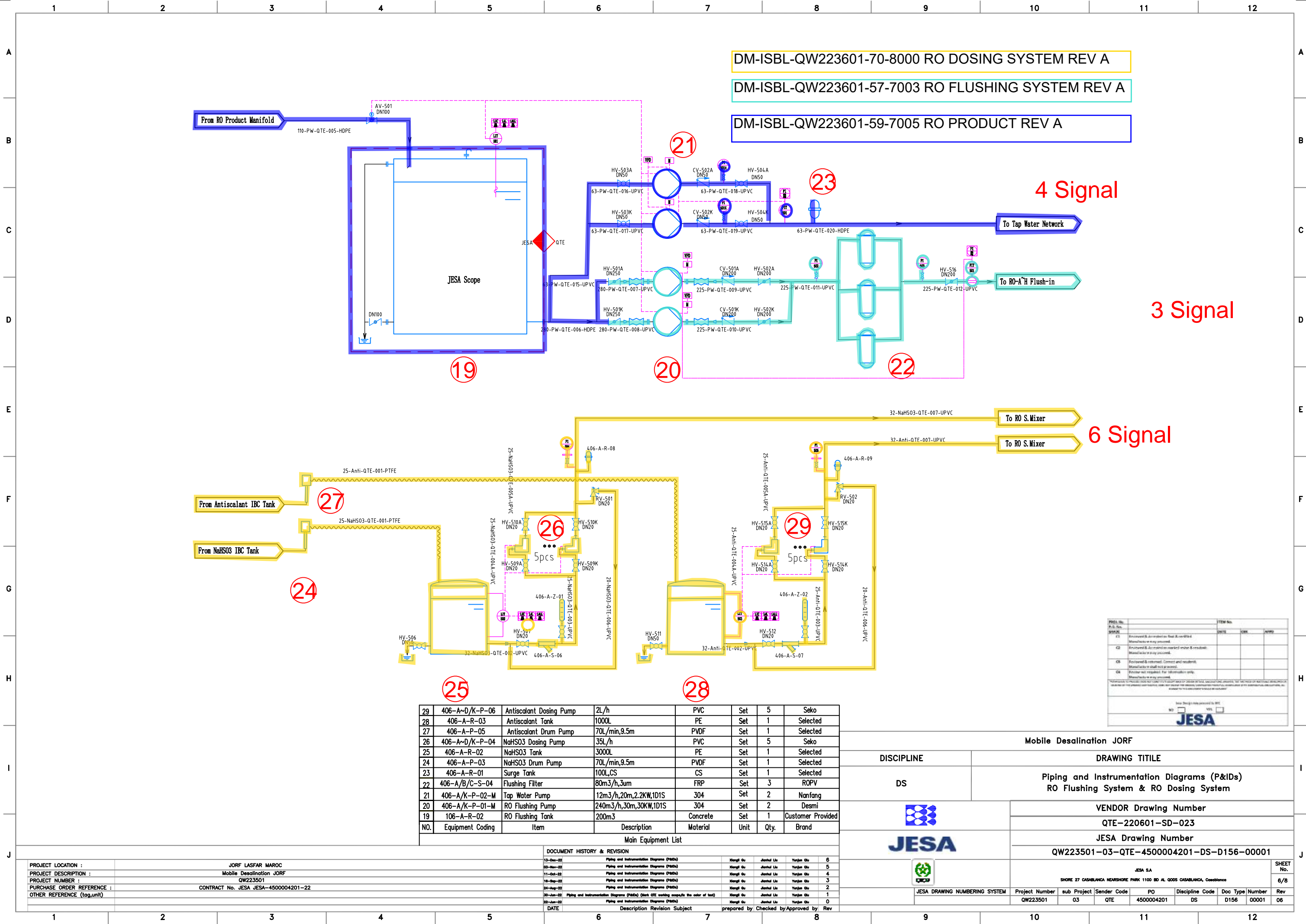
OTHER REFERENCE (tag,unit)

Mobile Desalination JORF							
DISCIPLINE				DRAWING TITLE			
DS				Piping and Instrumentation Diagrams (P&IDs) UF Container			
				VENDOR Drawing Number			
				QTE-220601-SD-023			
				JESA Drawing Number			
				QW223501-03-QTE-4500004201-DS-D156-00001			
				JESA S.A.			
JESA DRAWING NUMBERING SYSTEM				SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL OODS CASABLANCA, Casablanca			
Project Number	sub Project	Sender Code	PO	Discipline Code	Doc Type	Number	Rev
QW223501	03	QTE	4500004201	DS	D156	00001	06

SHEET No.

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DM-ISBL-QW223601-70-8000 RO DOSING SYSTEM REV A

DM-ISBL-QW223601-57-7003 RO FLUSHING SYSTEM REV A

DM-ISBL-QW223601-59-7005 RO PRODUCT REV A

4 Signal

3 Signal

6 Signal

ITEM No.	DATE	USER	STATUS
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29	406-A~D/K-P-06	Antiscalant Dosing Pump	2L/h	PVC	Set	5	Seko
28	406-A-R-03	Antiscalant Tank	1000L	PE	Set	1	Selected
27	406-A-P-05	Antiscalant Drum Pump	70L/min,9.5m	PVDF	Set	1	Selected
26	406-A~D/K-P-04	NaHSO3 Dosing Pump	35L/h	PVC	Set	5	Seko
25	406-A-R-02	NaHSO3 Tank	3000L	PE	Set	1	Selected
24	406-A-P-03	NaHSO3 Drum Pump	70L/min,9.5m	PVDF	Set	1	Selected
23	406-A-R-01	Surge Tank	100L,CS	CS	Set	1	Selected
22	406-A/B/C-S-04	Flushing Filter	80m3/h,3um	FRP	Set	3	ROPV
21	406-A/K-P-02-M	Tap Water Pump	12m3/h,20m,2.2KW,1D1S	304	Set	2	Nanfeng
20	406-A/K-P-01-M	RO Flushing Pump	240m3/h,30m,30KW,1D1S	304	Set	2	Desmi
19	106-A-R-02	RO Flushing Tank	200m3	Concrete	Set	1	Customer Provided
NO.	Equipment Coding	Item	Description	Material	Unit	Qty.	Brand

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13-Sep-22	Piping and Instrumentation Diagrams (P&IDs)	1	2022-03-01	Xiangli Gu	Jianhui Liu	Yunjun Gu	6
03-Nov-22	Piping and Instrumentation Diagrams (P&IDs)	2	2022-03-01	Xiangli Gu	Jianhui Liu	Yunjun Gu	5
11-Oct-22	Piping and Instrumentation Diagrams (P&IDs)	3	2022-03-01	Xiangli Gu	Jianhui Liu	Yunjun Gu	4
18-Sep-22	Piping and Instrumentation Diagrams (P&IDs)	4	2022-03-01	Xiangli Gu	Jianhui Liu	Yunjun Gu	3
24-Aug-22	Piping and Instrumentation Diagrams (P&IDs)	5	2022-03-01	Xiangli Gu	Jianhui Liu	Yunjun Gu	2
30-Jun-22	Piping and Instrumentation Diagrams (P&IDs) (Mark QTE working aspects to the color of text)	6	2022-03-01	Xiangli Gu	Jianhui Liu	Yunjun Gu	1
23-Jun-22	Piping and Instrumentation Diagrams (P&IDs)	7	2022-03-01	Xiangli Gu	Jianhui Liu	Yunjun Gu	0

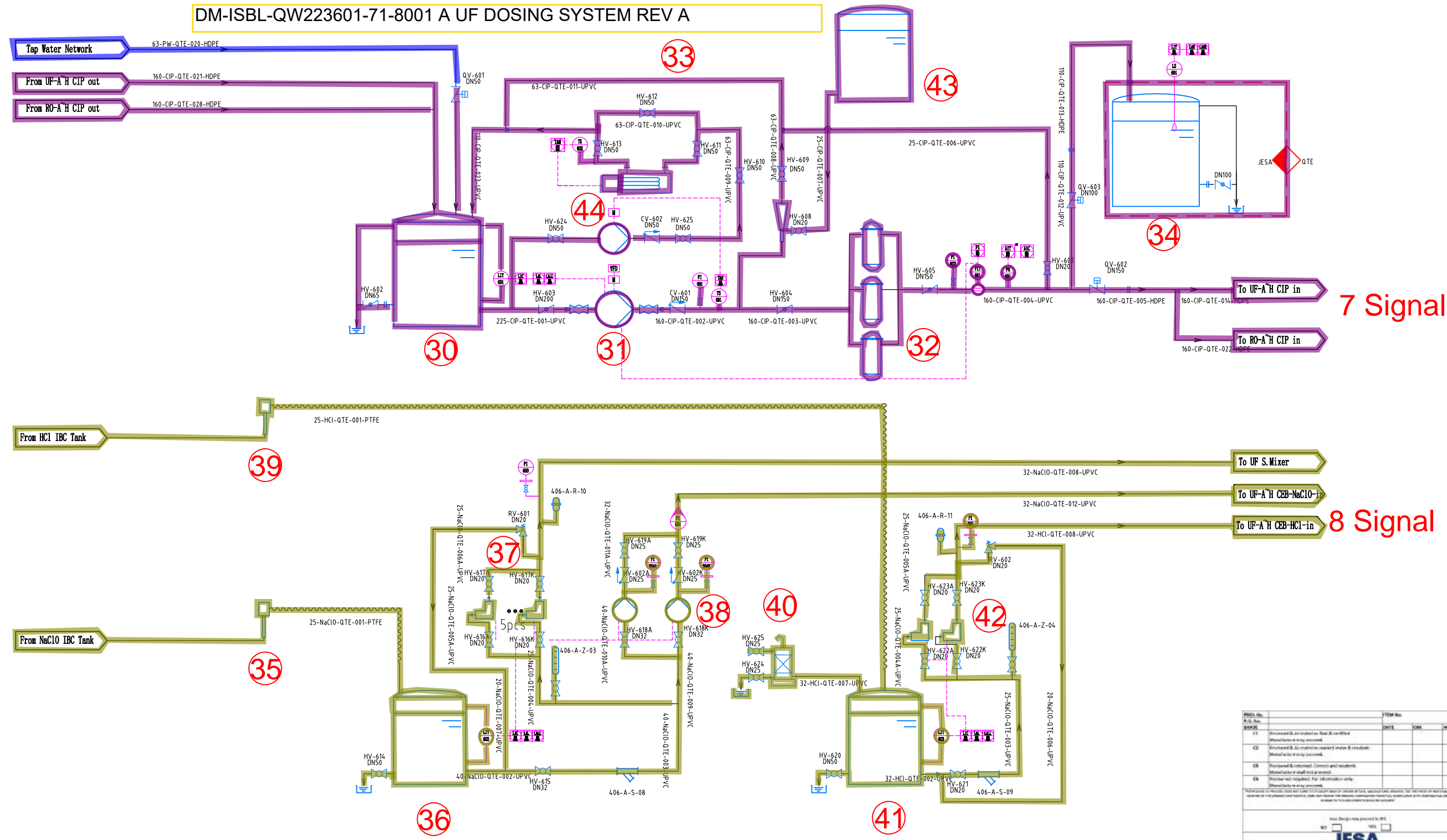
PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	CONTRACT No. JESA JESA-4500004201-22
OTHER REFERENCE (tag,unit)	

DISCIPLINE		DRAWING TITLE	
DS		Piping and Instrumentation Diagrams (P&IDs) RO Flushing System & RO Dosing System	
VENDOR Drawing Number		QTE-220601-SD-023	
JESA Drawing Number		QW223501-03-QTE-4500004201-DS-D156-00001	
JESA S.A.		SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL OODS CASABLANCA, Casablanca	
JESA DRAWING NUMBERING SYSTEM		Project Number	sub Project
		QW223501	03
		Sender Code	QTE
		PO	4500004201
		Discipline Code	DS
		Doc Type	D156
		Number	00001
		Rev	06

DM-ISBL-QW223601-58-7004 CIP SYSTEM FOR RO & UF SYSTEM REV A

DM-ISBL-QW223601-71-8001 A UF DOSING SYSTEM REV A

DM-ISBL-QW223601-59-7005 RO PRODUCT REV A



43	406-A-R-07	Chemical Measuring Tank	100L	PP	Set	1	Selected	44	406-A-P-13	Sewage Pump	1.5kw	Iron	Set	1	Selected
42	406-A-K-P-12	HCl CEB Pump	650L/h,1D1S	PVC	Set	2	Seko	36	406-A-R-05	NaClO Tank	3m3	PE	Set	1	Selected
41	406-A-R-06	HCl Tank	1m3	PE	Set	1	Selected	35	406-A-P-08	NaClO Drum Pump	70L/min,9.5m	PVDF	Set	1	Selected
40	406-A-K-01	Acid Mist Eliminator	Ø250	PVC	Set	1	Selected	34	106-A-R-03	Neutralization Tank	50m3	Concrete	Set	1	Customer Provided
39	406-A-P-11	HCl Drum Pump	70L/min,9.5m	PVDF	Set	1	Selected	33	406-A-E-02	CIP Heater	150KW	316	Set	1	Selected
38	406-A/K-P-10-M	NaClO CEB Pump	3700L/h,1D1S	PVC	Set	2	Meibao	32	406-A/B/C-S-05	CIP Filter	64m3/h,50um	FRP	Set	3	ROPV
37	406-A~D/K-P-09	NaClO Dosing Pump	15L/h,4D1S	PVC	Set	5	Seko	31	406-A-P-07-M	CIP Pump	192m3/h,35m,30KW	316	Set	1	Desmi
NO.	Equipment Coding	Item	Description	Material	Unit	Qty.	Brand	30	406-A-R-04	CIP Tank	6000L	PE	Set	1	Selected

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DATE	Description	Revision	Subject	prepared by	Checked by

Mobile Desalination JORF									
DISCIPLINE					DRAWING TITLE				
DS					Piping and Instrumentation Diagrams (P&IDs) CIP & UF Dosing System				
					VENDOR Drawing Number				
					QTE-220601-SD-023				
					JESA Drawing Number				
					QW223501-03-QTE-4500004201-DS-D156-00001				
JESA S.A.					SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca				
JESA DRAWING NUMBERING SYSTEM					Project Number	sub Project	Sender Code	PO	Discipline Code
					QW223501	03	QTE	4500004201	DS
								D156	00001
									Rev
									06

PROJECT LOCATION : JORF LASFAR MAROC
PROJECT DESCRIPTION : Mobile Desalination JORF
PROJECT NUMBER : QW223501
PURCHASE ORDER REFERENCE : CONTRACT No. JESA JESA-4500004201-22
OTHER REFERENCE (tag,unit)

SHEET No.
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PID: CAD Model

1. Equipment symbols

Name	Symbol
Centrifugal pump	
Vertical Centrifugal pump	
Horizontal Centrifugal pump	
Membrane Dosing pump	
Piston pump	
Air compressor	
Air Dryer	
Pneumatic diaphragm pump	
Energy recovery device	
Drain	

Name	Symbol
Venturi injector	
Y Strainer	
Buffer tank	
Calibration column	
Heat exchanger	
Tube heat exchange	
Static mixer	
Horizontal cartridge filter	
Vertical cartridge filter	
Air Tank	

Name	Symbol
Air filter	
Rupture disk	
Mist Eliminator	
Screen self cleaner	
Disc self cleaner	
UF module	
RO module	
Eye washer	
Liquid tank	

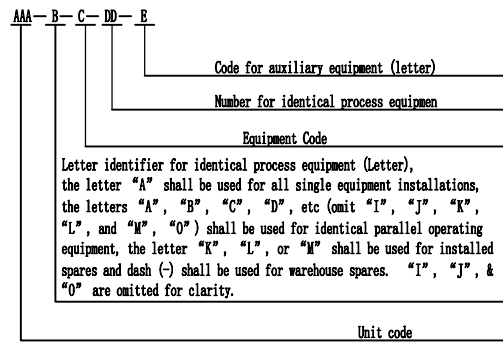
5. Fluid codes

Fluid code	Fluid Name
SW	Seawater
IW	Industry water
YW	Rainwater
IA	Instrument air
CA	Compressed air
LS	Low P. steam
TS	Tracing steam
PAM	Polyacrylamide
Fe	Ferric chloride
NaOH	Sodium hydroxide
HCl	Hydrochloric acid

Fluid code	Fluid Name
Na	Sodium hyperchlorite
ATS	Anti-scalant
CH	Deoxidizer
NOB	Non-oxidative biocides
SL	Sludge
BW	Backwashing feed
BWW	Backwashing discharge
UFF	UF feed
UPP	UF product
UBW	UF backwashing feed
UBWW	UF backwashing discharge

Fluid code	Fluid Name
ROF	RO feed
ROW	RO flushing
ROP	RO product
ROD	RO concentrate
RUW	Recycled water
CW	Cleaning water
DSW	Demi water
DWE	Cation bed product
DWF	Anion bed product
DW	Mix bed product

8. Equipment coding



Unit coding

0X	Main units
1X	OSBL storages
2X	Utilities
3X	Workshops
4X	General services
5X	Port
X06	Desalination Unit

2. Valves & fitting Symbols

Name	Symbol
Gate valve	
Knife gate valve	
Butterfly valve	
Ball valve	
Diaphragm valve	
Check valve	
Needle valve	
Pressure reducing valve	

Name	Symbol
Float valve	
Solenoid valve	
Flexible Joint	
Pneumatic valve	
Motorized valve	
Pneumatic ball valve	
Motor ball valve	
Pneumatic diaphragm valve	

Name	Symbol
Safety valve	
3-way valve	
4-way valve	
Sampling valve	
Venting valve	
Pressure regulator	
Concentric reducer	

6. Instrument codes

Name	缩写
pH value	pH
Conductivity	C
Oxidation-Reduction Potential(ORP)	
Sludge density index	SDI

Name	缩写
Silicon	Si
Ammonia nitrogen	N
Turbidity	NTU
Calcium	Ca

Name	缩写
Total organic carbon	TOC
Chemical oxygen demand	COD
Residual chlorine	CL

7. Instrument symbols

Name	Symbol
Electromagnetic Flowmeter	
Electromagnetic Flowmeter	
Float switch	
Ultrasonic level element	
Hydrostatic level element	
Manometer	
Manometer with membrane separator	
Flowmeter(Ultrasonic)	

Name	Symbol
Discrete Instruments	
Shared Display, Shared Control	

3. Piping symbols

Name	Symbol
Crossing pip	
3-way connection	
4-way connection	
Flange connection	

Name	Symbol
Socket connection	
Scow connection	
Union connection	
Battery of supply	

Name	Symbol
Flange end cover	
Flow direction	
Pipe slope	
Flexible connection	

Name	Symbol
Low pressure pipe	
High pressure pipe	
Scope of equipment	

4. Equipment code

Code	Item
C	Compressor
E	Exchanger
S	Separator filter
R	Tank/Container (Solid/Liquid)

Code	Item
P	Pumps
K	CATALYTIC CONTACT

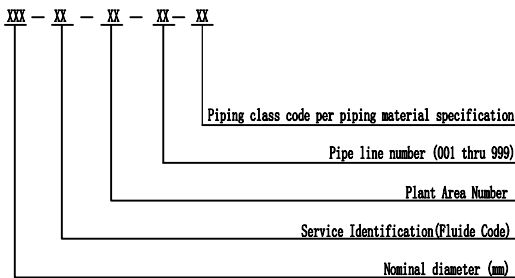
Code	Item
AV	Motor valves
QV	Pneumatic valves
SV	Solenoid valves
HV	Manual valves

Code	Item
CV	Check vavles
RV	Relief vavles

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9. Piping coding



Fluids Code	
Code	Name
WSS	Sea Water
WSR	Sea Water Return
PW	Pure Water
CIP	Chemical Cleaning Water

Material code	
Code	Name
UPVC	Unplasticized Polyvinyl Chloride
PE	High Density Polyethylene
PPR	Polypropylene random
2507	Super duplex 2507

ITEM No.	DATE	USER	STATUS
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Mobile Desalination JORF

DISCIPLINE	DRAWING TITLE
DS	Piping and Instrumentation Diagrams (P&IDs) CAD Symbol Description
VENDOR Drawing Number	
QTE-220601-SD-023	
JESA Drawing Number	
QW223501-03-QTE-4500004201-DS-D156-00001	
JESA S.A. SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL OODS CASABLANCA, Casablanca	
JESA DRAWING NUMBERING SYSTEM	Project Number sub Project Sender Code PO Discipline Code Doc Type Number Rev
QW223501 03 QTE 4500004201 DS D156 00001 06	

PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	CONTRACT No. JESA JESA-4500004201-22
OTHER REFERENCE (tag,unit)	