



Brief Presentation

ENERGY EQUIPMENT DIVISION

The Spirit to Walk an Extra Mile...

Corporate Office & State-of-the-art Manufacturing Facilities

Corporate Office: Manesar, Haryana, India



Corporate Office:



Sales & Engineering

Manufacturing (Unit – 1), Bawal, Haryana, India



Extended Manufacturing (Unit – 1), Bawal, Haryana, India

BLISS
EUROPE



Factory Tour : Bawal, Haryana, India

Shop Floor



Factory Tour : Bawal, Haryana, India

Shop Floor



Factory Tour : Bawal, Haryana, India

Shop Floor - Aluminum Domes & IFR



Factory Tour : Bawal, Haryana, India

Shop Floor



Extended Corporate Office (Unit-2): Manesar, Haryana, India



Manufacturing (Unit – 2), Dubai, UAE

BLISS
EUROPE



Factory Tour : Dubai, UAE

Shop Floor



Manufacturing (Unit – 4), Kingdom of Saudi Arabia



Factory Tour: Kingdom of Saudi Arabia

Shop Floor



Brdr. Christensens, Denmark

BLISS
EUROPE



Factory Tour: Denmark

Shop Floor



Energy Equipment Division - Products/Systems



**2-3 Phase Separator
System - Skid**



**Indirect Water Bath
Heater**



**Gas Conditioning,
Regulating & Metering
System**



Chemical Injection Skid



**Aluminium Internal
Floating Roofs**



Heater Treater



**Geodesic Dome & IFR for
Hydrocarbon Storage
Tank**



Wellhead Control Panel

2-3 Phase Separator System - Skid

Key Highlight

- Primary equipment for separation of Liquid & Gas (Two Phases) or Oil, Water & Gas (Three Phases) from Oil Well Stream.
- Design & manufacture as per API 12J. Specification for Oil & Gas operation.
- Internal Inlet impingement Baffles, Wave Baffles, Flow Straightening Baffles, Weirs, Mist Eliminators & Vortex Breakers provided for effective separations.
- Designed to allow sufficient retention period.
- Controls & Instrumentation provided to accurately measure the Gas, Oil & Water flow rates, regulate the pressure and monitor the levels of Oil, Water in the Separator.



Indirect Water Bath Heater:

Key Highlight

- Designed in full compliance with API 12K specifications. Specification for Indirect Type Oil Field Heaters.
- Natural Draft Burners, directly mounted on Fire Tube.
- Precise temperature control.
- Removable Single or Twin Fire Tube Design.
- Removable Heating Coil for ease of maintenance.
- Burners System complete with Pilot, Main Burner, Gas Train, Spark Igniter.
- Flame Arrestors at Burners Air Intake and Stack Top.
- Heating capacity upto 5 Million K.Cal/Hr.



Gas Conditioning, Regulating & Metering System:



Key Highlight

- Ensures supply of Dry and Dust Free Gas.
- 2 × 100 % Filter Separators together with Indirect Water Bath Heater (as per service requirement) complete with Interconnecting Piping, Valves, Instrumentations, Electrical and PLC based Control Panels for unattended & smooth operation.
- Separation and Removal of Liquid from the Gas Stream.
- Compact, well-engineered skid mounted layout to facilitate easy access to all Valves



Chemical Injection Skid:

Key Highlight

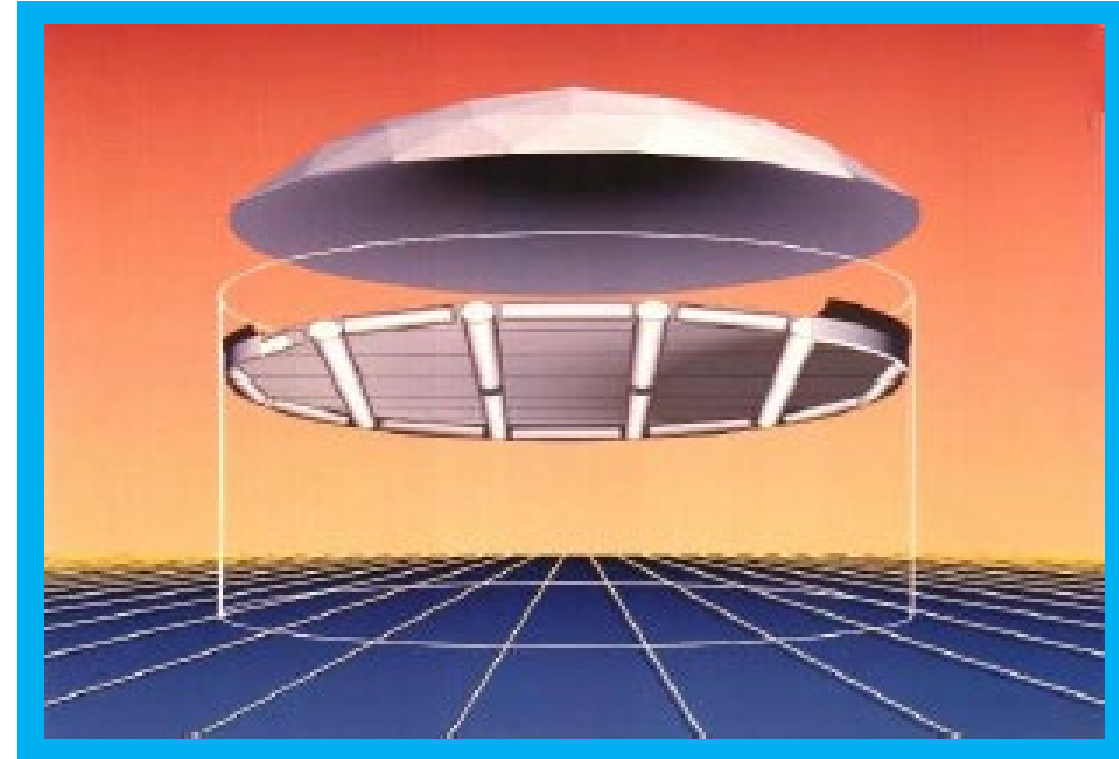
- We specialize in Design and Fabrication of Transportable/Permanent, Skid Mounted Chemical Injection Systems.
- These systems are built to customer requirement and in accordance with international design codes/standards.
- Pump selection, material of construction is selected for compatibility with the process chemical.
- Use of proven system component, 3D modelling to ensure ease of operation and maintenance etc.
- Single point or multipoint Injection Systems.



Internal Floating Roof:

Key Highlight

- Minimizes Vapour Losses of stored liquids, while saving a lot of money.
- Extremely light weight compared to conventional CS IFR.
- No period maintenance required resulting in cost effectiveness.
- No Painting required required resulting in cost effectiveness.
- Well designed to manage vacuum & pressure flow.
- Reduces pollution while ensuring no harmful vapours are let off to the atmosphere.
- Increases safety while ensuring no explosive vapours are trapped.



Heater Treater:

Key Highlight

- Adequately designed for both vertical and horizontal installation.
- Direct type and Indirect Type First time 'Made In India' with such a huge capacity.
- Custom built to suit the process requirement and the client need.
- Fully automated with SDV, PRV, CV, Analyzer, Transmitters, PSV, Duobloc Burnerr, PLC control etc..
- Designed and Manufactured as per international quality norms.
- Lightweight insulation reduces loading weight.
- Resistance to mechanical and thermal shocks.
- Faster start-up and cool down period.



Aluminum Geodesic Dome:

Key Highlight

- Extremely light weight but extremely strong compared to conventional CS dome, hence very low loads on the tank and foundations.
- Non welding type construction.
- Maintains extremely low temperature inside the tank unlike a CS Dome.
- No or very little maintenance required in the dome's lifetime.
- Strong enough to withstand all environmental factors while ensuring the tank contents remain uncontaminated and odors and vapors are contained.
- No need to dispose of water contaminated due to leaky seals or drains
- No standing water reduces the corrosion & loads of steel parts while also reducing risk of collapse due to accumulation.
- Zero risk of rim fires.



Wellhead Control Panel:

Key Highlight

- Modular Design with SS 316 / 316 L
- Construction or as needed.
- Adequate Power & head to meet the well requirement.
- Easy Operation, Maintenance & Serviceability
- First Time 'Made In India'
- Future proofing & Expandable design.
- Safe & Environment protected design.



Projects Executed

Energy Equipment - Heater Treater:



Energy Equipment - Heater Treater:



Heater Treater



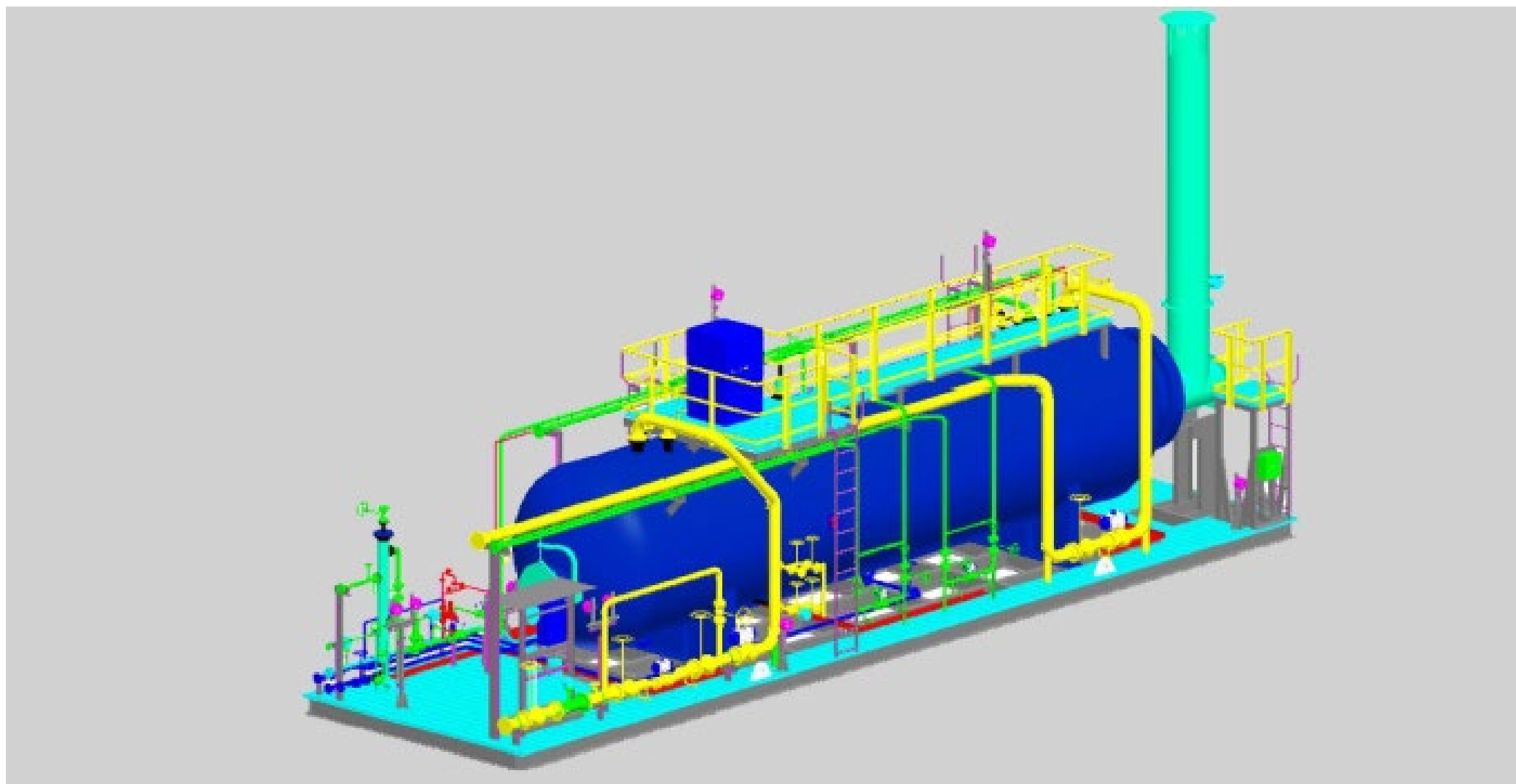
Features:

- Adequately designed for both vertical & horizontal installation.
- Direct type & indirect type.
- Custom built to suit the process requirement and the client need.
- Designed & Manufactured as per international quality norms.
- Light weight insulation reduces loading weight.
- Low installation cost, the heater with all instruments & controls can be skid mounted for simple, economical installation & relocation.

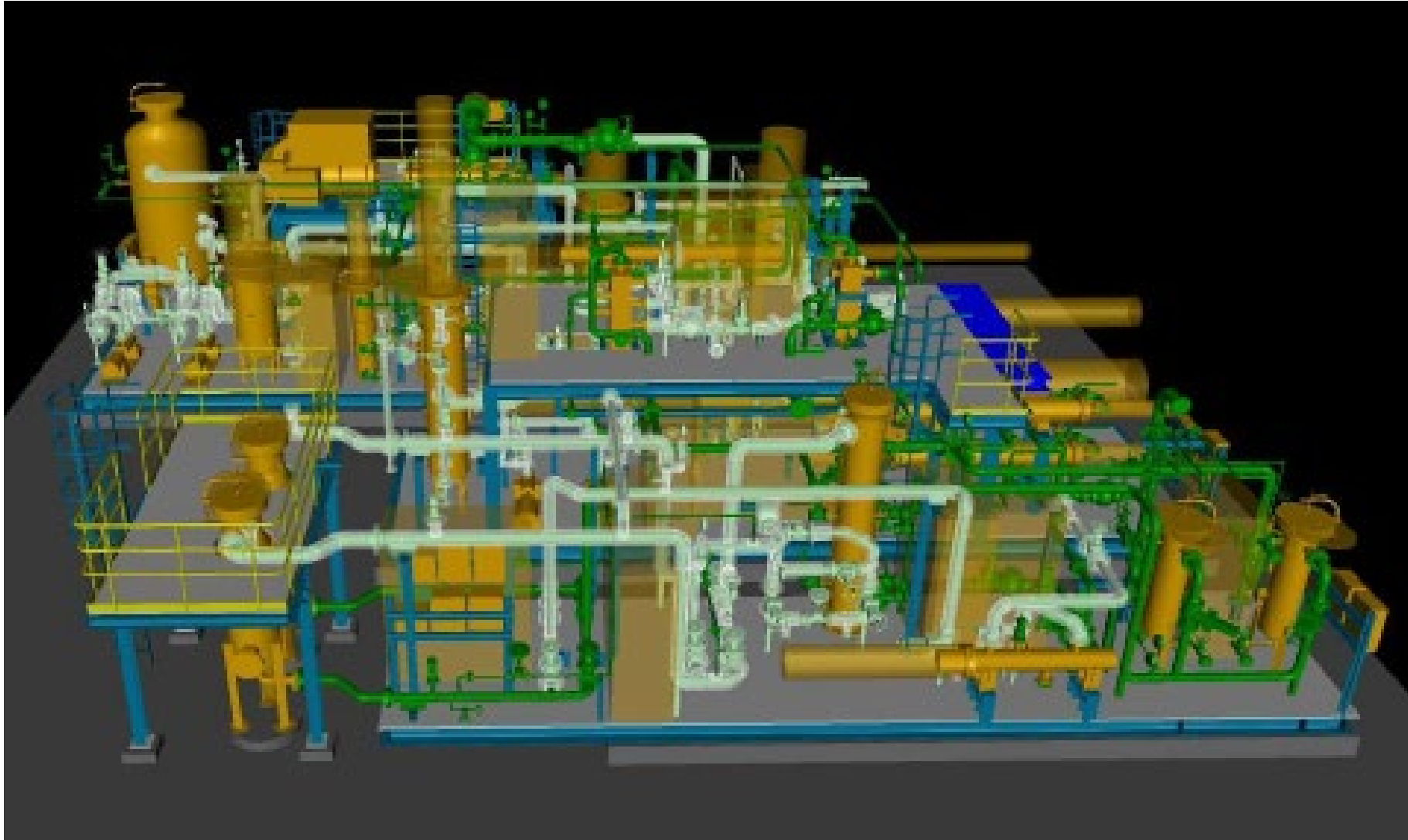
Energy Equipment: HT Fabrication



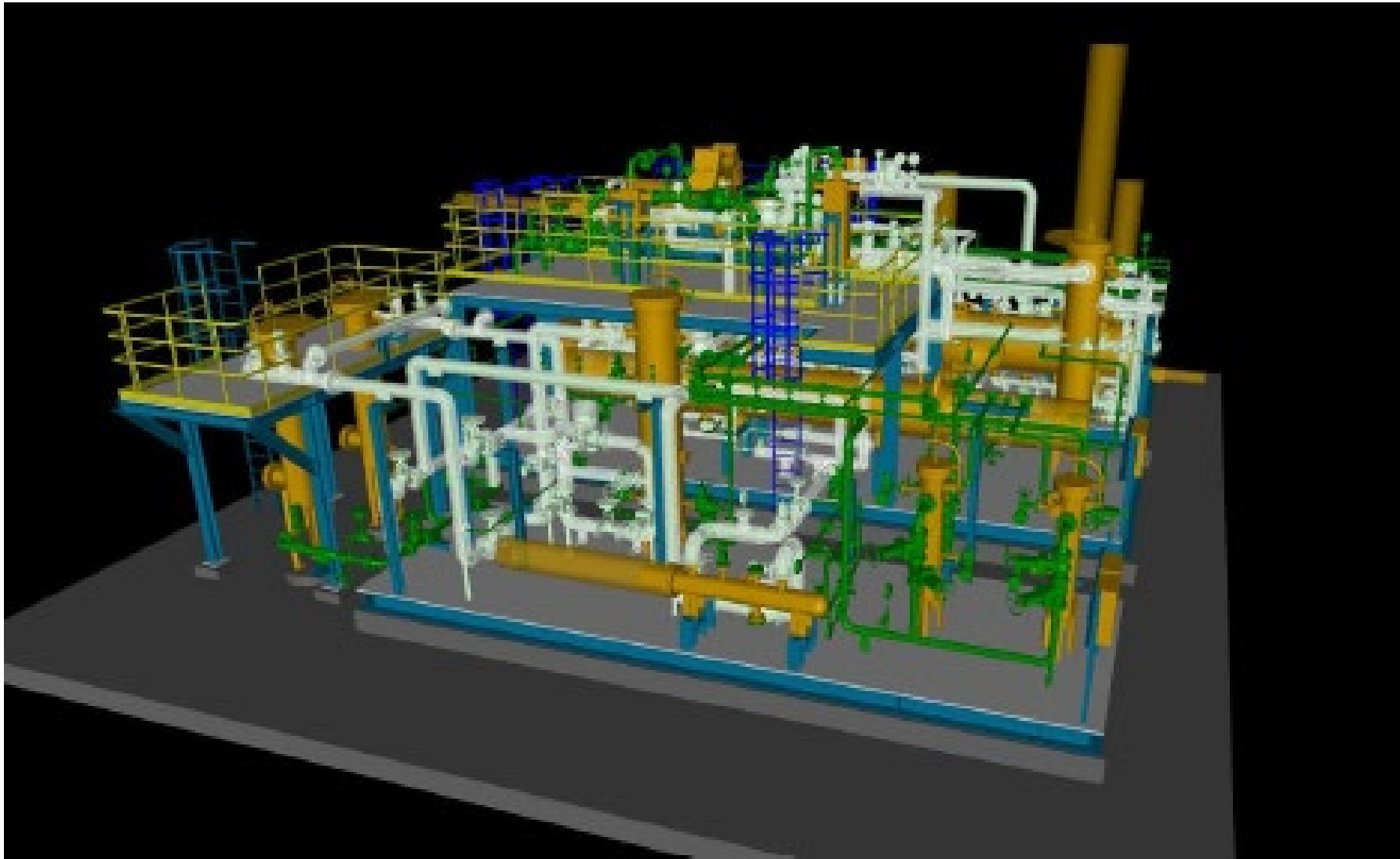
Energy Equipment - Heater Treater:



3 D Snapshot Purge Gas Recovery Unit in execution



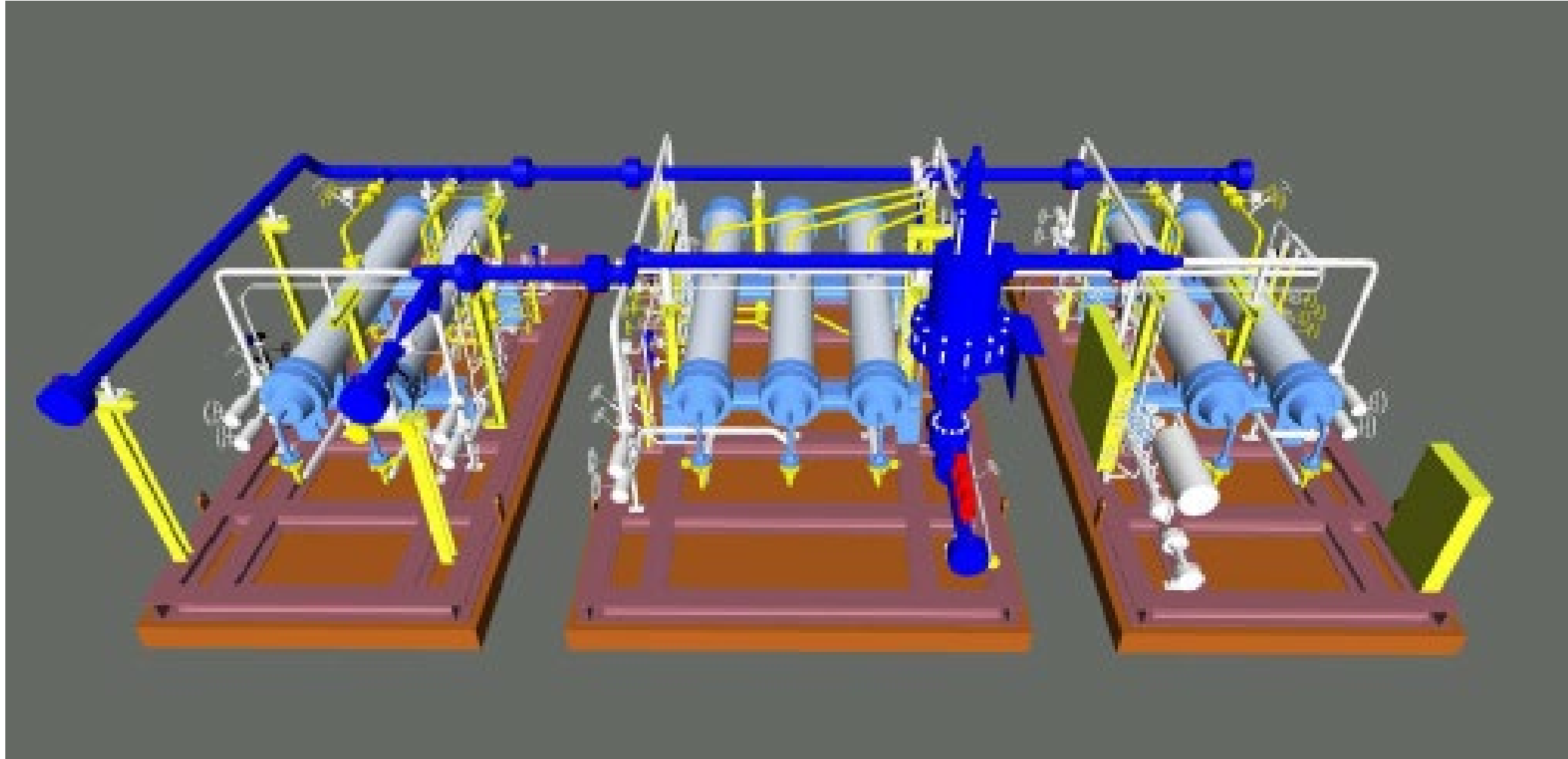
3 D Snapshot Purge Gas Recovery Unit in execution



3 D Snapshot HP Hydrogen Recovery Unit in execution



3 D Snapshot HP HRU in execution



Wellhead Control Panel:



Wellhead Control Panel:



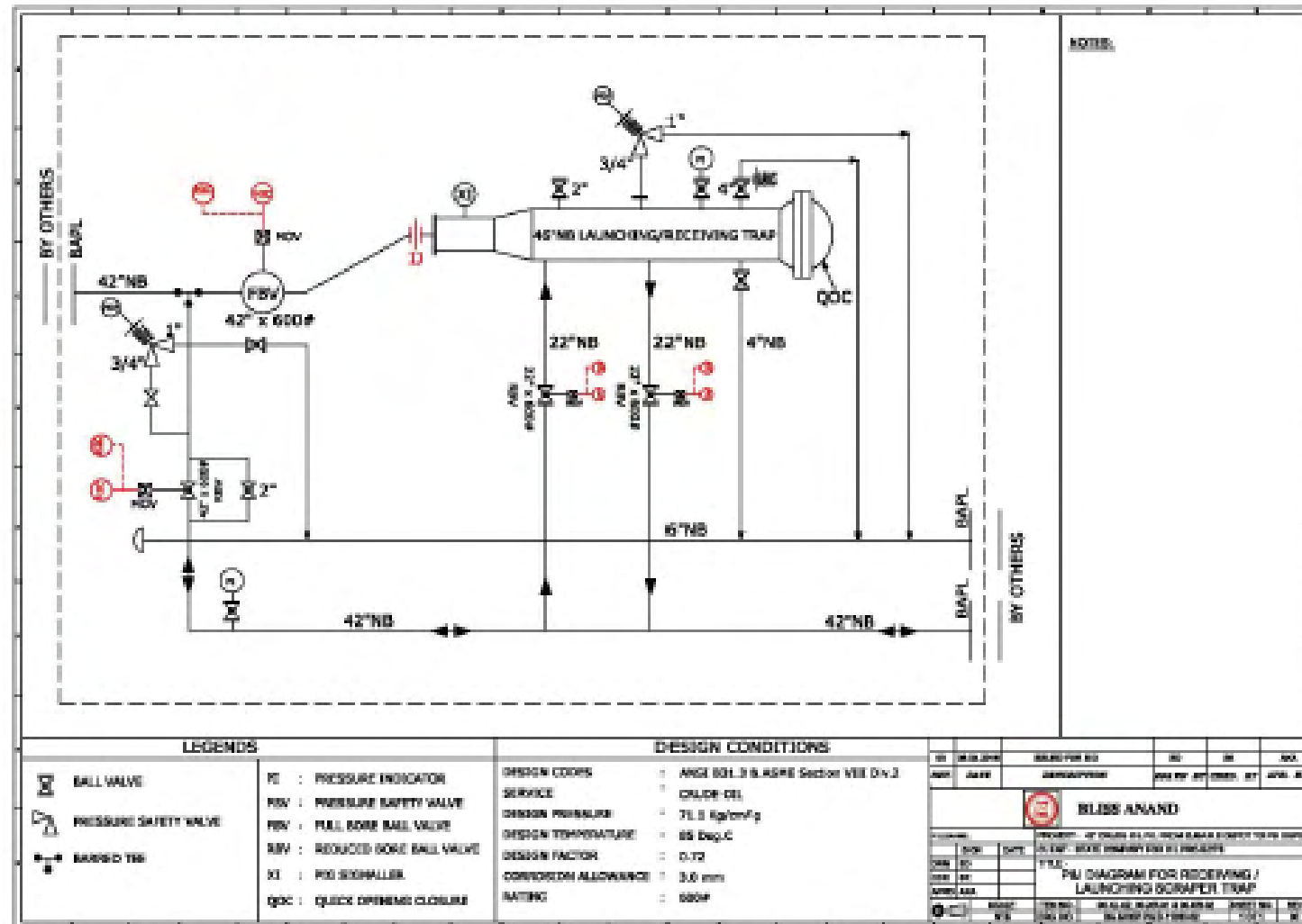
Project : Hydrogen Recovery From Syngas For Shell R&D



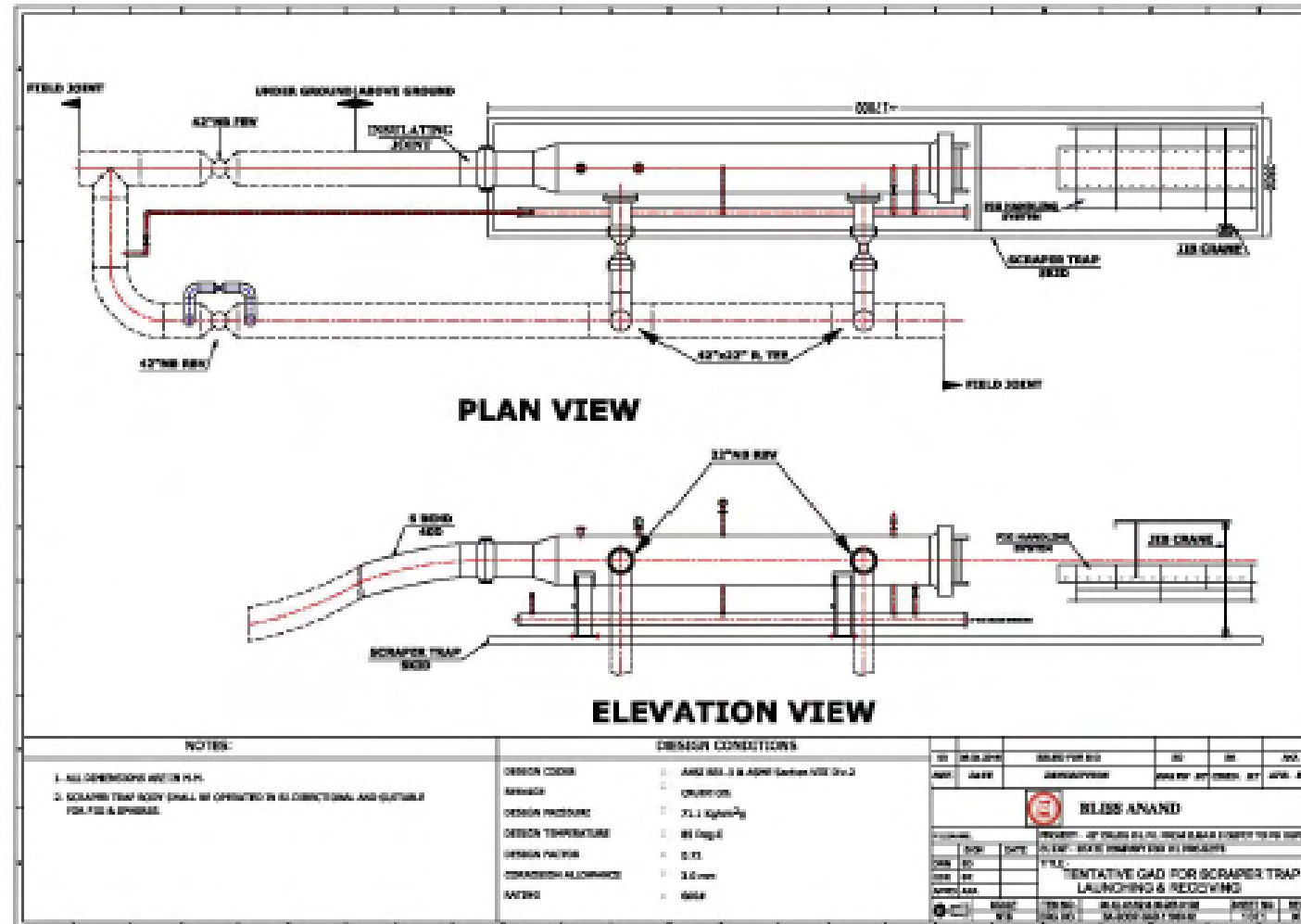
Pig Launching & Receiving Station:



P&I Diagram: Pig Launching & Receiving Station:



P&I Diagram: Pig Launching & Receiving Station:



Bliss Anand - Modular Assemblies:



Engineered Modules

Chemical Injection Skid

Custody Transfer &
Metering

Transfer Pump

Pig Launchers & Receivers

Process Based Modules

Filter Separation

Indirect Water Bath Heaters

Heater Treater

Surge Relief Systems

De-emulsifiers

Gas Conditioning

Gas Dehydration

Membrane Separation

Turnkey Solutions

Products Loading Terminal

Loading/Unloading Station

Purge Gas Recovery System

Bliss Group - Software:



SOFTWARE
PV Elite
AutoCAD
Solidworks
CFD

IMPLEMENTATION
Pressure Vessel & Heat Exchanger Design
2D & 3D Design & Drafting
Solid Modeling CAD & CAE Software
High end Engineering Software in use

PROVIDERS / LICENSOR
Intergraph CADWorx and Analysis Solutions
Autodesk
Dassault Systemes SolidWorks Corp.
ANSYS



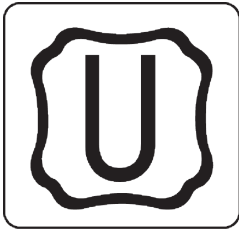
CERTIFICATIONS



Certifications:

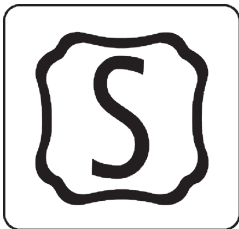


ASME Certifications:



ASME U STAMP

Pressure Vessels Fabrication or weld modifications of unfired pressure vessels require the ASME “U” & National Board Stamp.



ASME S STAMP

Power Boilers (over 15 p.s.i steam, 160 p.s.i. water & temperature exceeding 250 F) shall be stamped ASME (S) & National Board (N.B.).



ASME PP STAMP

Pressure Piping applies to boilers in which steam or other vapor is generated at pressure exceeding 15 psig, and high temperature water boilers intended for operation at pressure exceeding 160 psig and / or temperature exceeding 250 degree F.



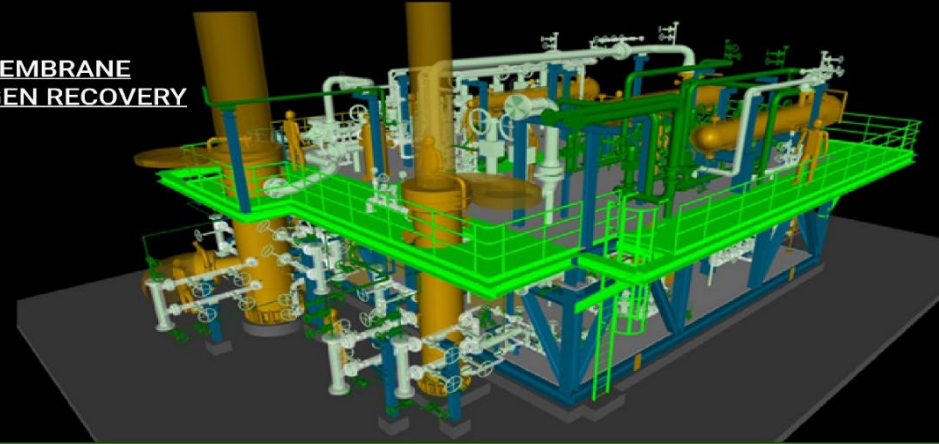
EXHIBITS



3D MODEL: HYDROGEN RECOVERY UNIT & PURGE GAS RECOVERY

PROCESS SKID PACKAGE BY BLISS ANAND

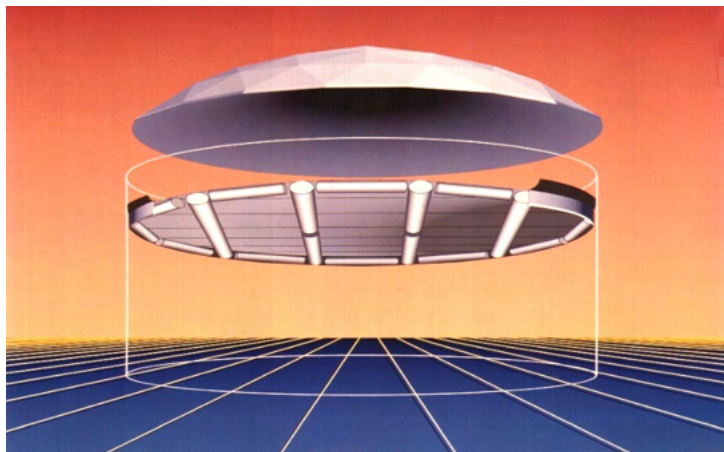
HIGH PRESSURE MEMBRANE
PACKAGE FOR HYDROGEN RECOVERY



MEMBRANE PACKAGE FOR
PURGE GAS RECOVERY



BLISS : Aluminum Floating Roof & Geodesic Dome in Aluminum



Dome & IFR



AL Floating Roof



AL DOME COVER

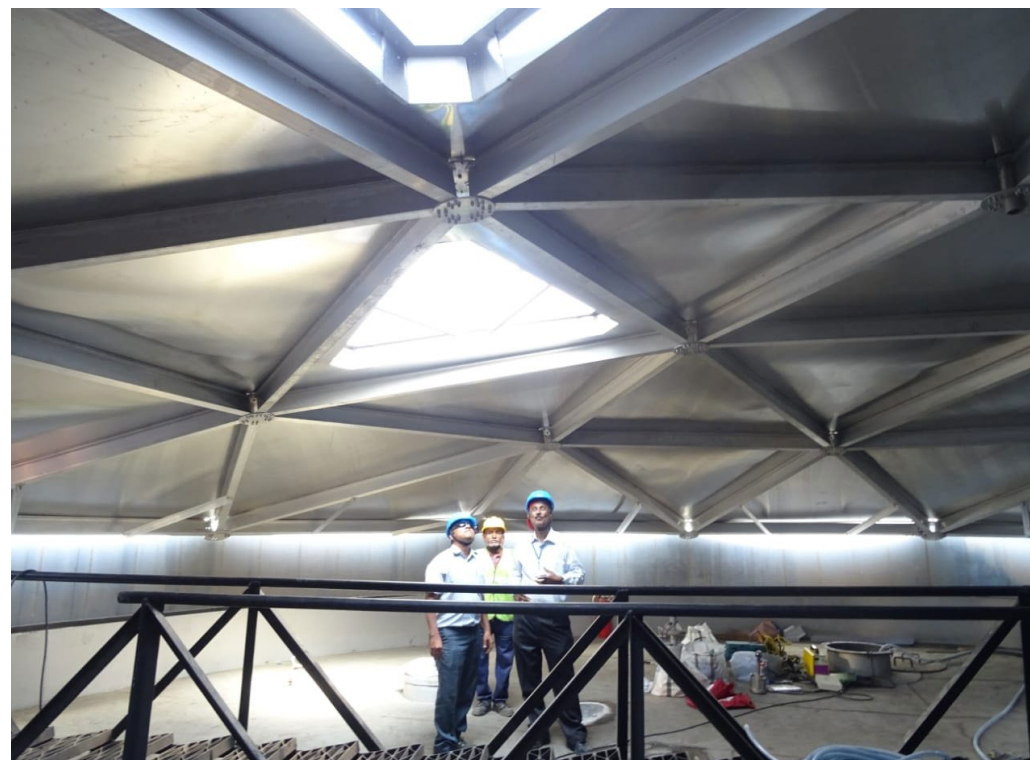


Energy Equipment: Aluminum IFR & Geodesic Dome

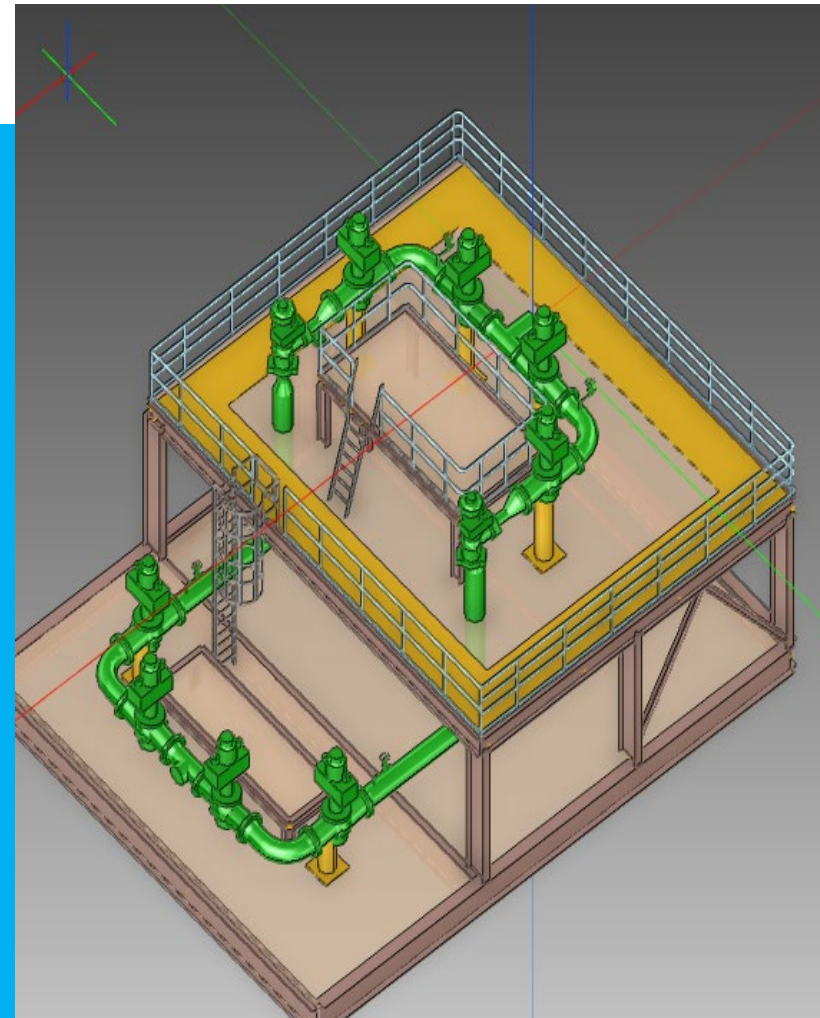
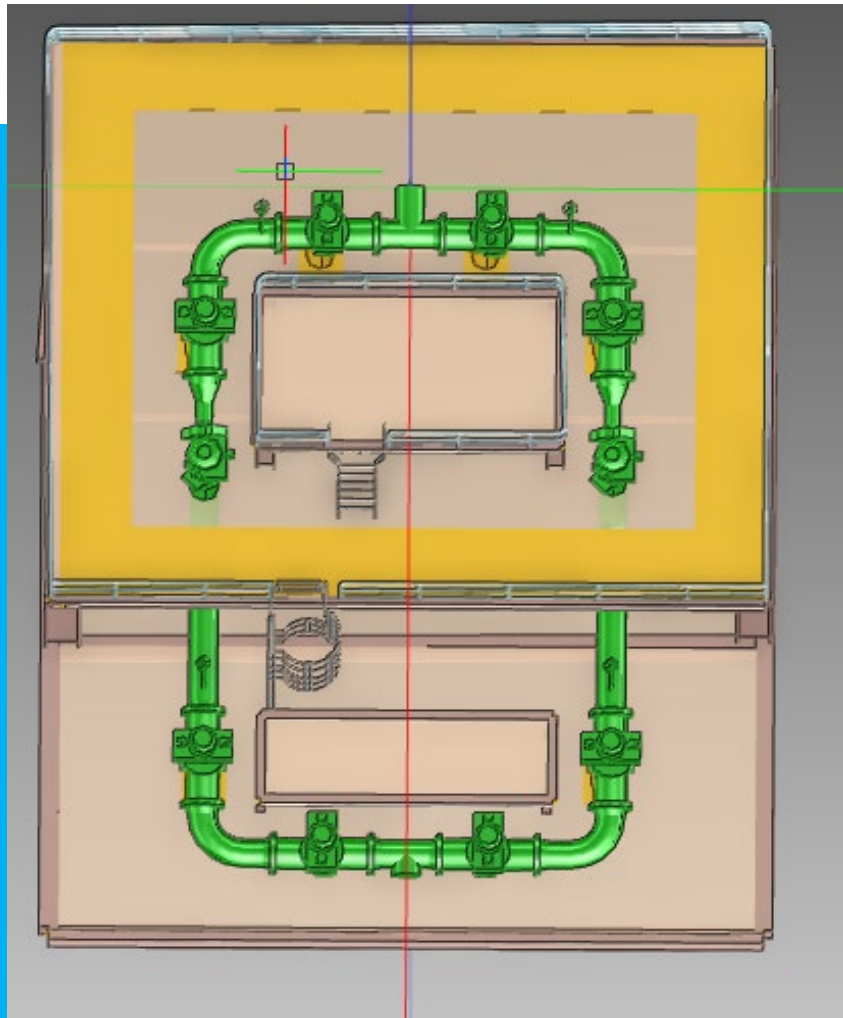
AL Floating Roof



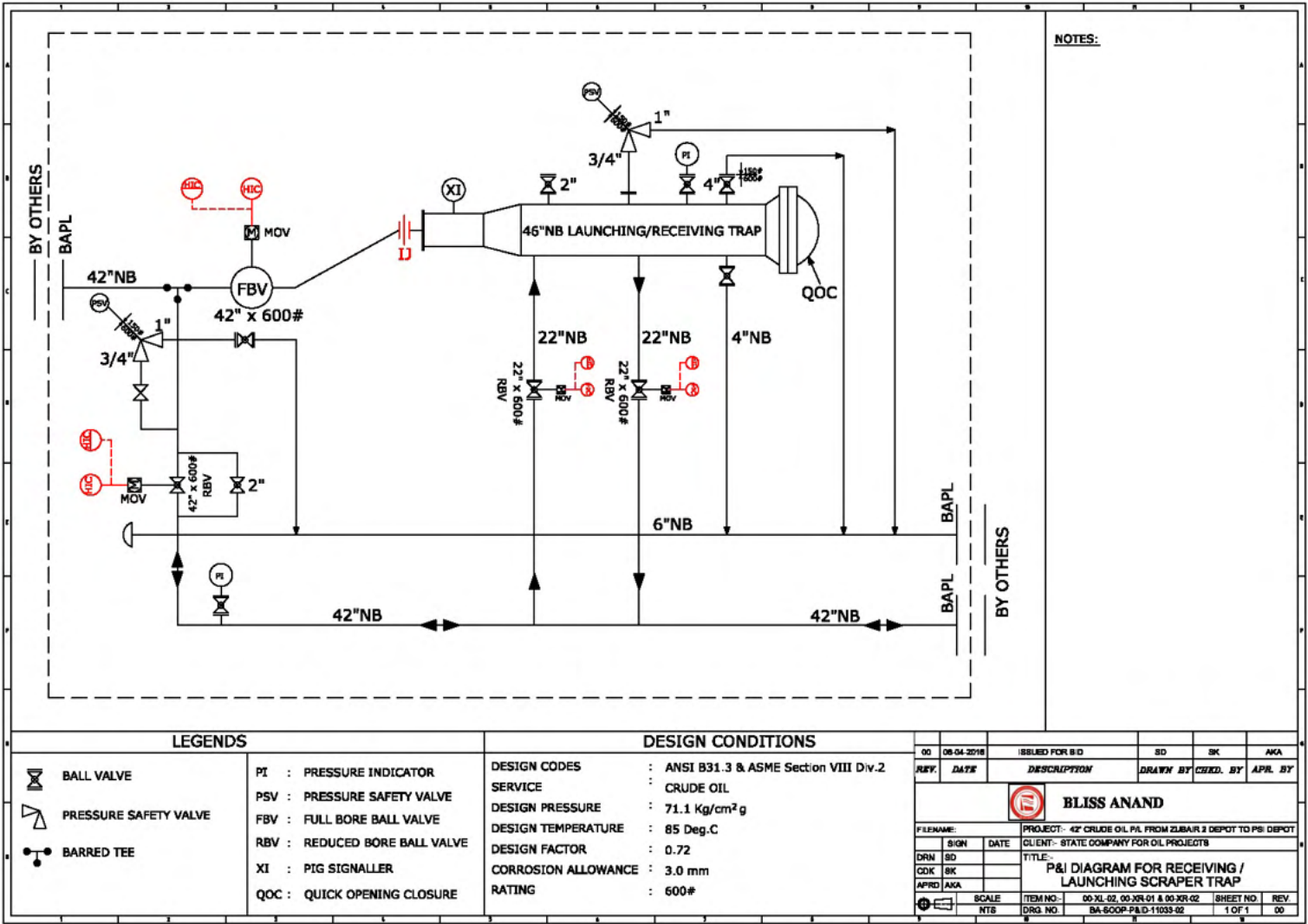
AL DOME



Letdown Skid : With T-Connection & Straight Valve



Exhibits P&I DIAGRAM: PIG LAUNCHING & RECEIVING STATION



Exhibits QUALIFIED WELDERS:



BLISS ANAND PVT LTD					LIST OF QUALIFIED WELDERS										Doc No.	BAPL/ML/WPQ - 2		
															Rev. No.	A		
															Date	22/06/2015		
															Page	Page 1 of 2		
Sl. No.	WELDER NAME	CLOCK NO.	STAMP NO.	WPS #	PQR #	Welding Process	Process Type	Weld Type	Qualified P. No.	Grade	Qualified F.No.	Filler / Electrode	Position Qualified Plate	Max. Weld Deposit Qualified	Max. Base Metal Thk. Qualified	CERTIFYING AGENCY		
1	Jacob Joseph	11	W-JJ	WPS-BA-003	PQR-BA-003	GTAW + SMAW	Manual	Groove	1 to 1	SA 106 Gr.B	5, 4	ER 70 SG, E3018	Flat	1.5 to 9.0 mm	1.5 to 9.0 mm	ABS INDUSTRIAL VERIFICATION (INDIA)/ BAPL		
2	Ali Akhtar	12	W-AA	WPS-BA-007	PQR-BA-007	GTAW + SMAW	Manual	Groove	1 to 8	SA 312TP316L TO SA106 Gr.B	5, 5	ER 309L, E309L 16	Flat	1.5 to 9.0 mm	1.5 to 9.0 mm	DET NORSKE VERITAS / BAPL		
3	Ali Akhtar	12	W-AA	WPS-BA-009	PQR-BA-009	GTAW + SMAW	Manual	Groove	1 to 1	SA333 Gr6 TO SA333 Gr6	5, 4	ER 70 SG, E3018-G	Flat	1.5 to 9.0 mm	1.5 to 9.0 mm	ABS INDUSTRIAL VERIFICATION (INDIA)/ BAPL		
4	Ali Akhtar	12	W-AA	WPS-BA-102	PQR-BA-102	GTAW	Manual	Groove	45 to 45	S8423 TO S8423 (UNSN08875)	43	ER NiCrMo-3	Flat	1.5 to 9.0 mm	1.5 to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
5	Shiv Ratan	13	W-SR	WPS-BA-003	PQR-BA-003	GTAW + SMAW	Manual	Groove	1 to 1	SA 106 Gr.B	5, 4	ER 70 SG, E3018	Flat	9.0 mm	1.5 to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
6	Shiv Ratan	13	W-SR	WPS-BA-007	PQR-BA-007	GTAW + SMAW	Manual	Groove	1 to 8	SA 312TP316L TO SA106 Gr.B	5, 5	ER 309L, E309L 16	Flat	9.0 mm	1.5 to 9.0 mm	DET NORSKE VERITAS / BAPL		
7	Shiv Ratan	13	W-SR	WPS-BA-101	PQR-BA-101	GTAW + SMAW	Manual	Groove	8 to 8	SA 312TP316L TO SA 312TP316L/ SA182E316L	5, 5	ER 316L, E316L 16	Flat	9.0 mm	1.5 to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
8	Shiv Ratan	13	W-SR	WPS-BA-102	PQR-BA-102	GTAW	Manual	Groove	45 to 45	S8423 TO S8423 (UNSN08875)	43	ER NiCrMo-3	Flat	9.0 mm	1.5 to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
9	Shiv Ratan	13	W-SR	WPS-BA-105	PQR-BA-105	GTAW	Manual	Groove	43 to 43	S8444 (UNS N06625) TO S8 444	43	ER NiCrMo-3	Flat	9.0 mm	1.5 to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
10	Shiv Ratan	13	W-SR	WPS-BA-106	PQR-BA-106	GTAW	Manual	Groove	10H to 10H	SA790 TO SA790 (UNS S32750)	6	ER 2594	Flat	9.0 mm	1.5 to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
11	Shiv Ratan	13	W-SR	WPS-BA-111	PQR-BA-111	GTAW	Manual	Groove	8 to 8	SA 312TP UNS S31254	43	ER NiCrMo-3	Flat	9.0 mm	1.5 to 9.0 mm	INDIAN REGISTER OF SHIPPING/ BAPL		
12	Shiv Ratan	13	W-SR	WPS-BA-103	PQR-BA-103	GTAW	Manual	Groove	8 to 8	SA 312TP UNS S31254	43	ER NiCrMo-3	Flat	9.0 mm	1.5 mm to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
13	Mahfuz Alam	14	W-MA	WPS-BA-102	PQR-BA-102	GTAW	Manual	Groove	45 to 45	S8423 TO S8423 (UNSN08875)	43	ER NiCrMo-3	Flat	9.0 mm	1.5 mm to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
14	Mahfuz Alam	14	W-MA	WPS-BA-103	PQR-BA-103	GTAW	Manual	Groove	8 to 8	SA 312TP UNS S31254	43	ER NiCrMo-3	Flat	9.0 mm	1.5 mm to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
15	Mahfuz Alam	14	W-MA	WPS-BA-107	PQR-BA-107	GTAW	Manual	Groove	42 to 42	S8564 TO S8564 (UNSN04400)	42	ER NiCu-7	Flat	9.0 mm	1.5 mm to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
16	Mumtaz Alam	15	W-MU	BAPL/WPS-001	BAPL/PQR-001	GTAW	Manual	Hard Facing Overlay	8	CFBM	72	ERCoCr-A	Flat	No Limit	No Limit	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
17	Mumtaz Alam	15	W-MU	BAPL/WPS-002	BAPL/PQR-002	GTAW	Manual	Groove	1 to 1	WCB	4	E 7018	Flat	24 mm	24 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
								Filet	1 to 1	WCB	4	E 7018	Flat	No Limit	No Limit	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
18	Mumtaz Alam	15	W-MU	BAPL/WPS-003	BAPL/PQR-003	GTAW	Manual	Groove	1 to 1	WCB	6	ER 705-2	Flat	24 mm	24 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
								Filet	1 to 1	WCB	6	ER 705-2	Flat	No Limit	No Limit	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
19	Mumtaz Alam	15	W-MU	BAPL/WPS-004	BAPL/PQR-004	GTAW	Manual	Groove	4 to 4	WC6	4	E 8018 B2	Flat	24 mm	24 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
								Filet	4 to 4	WC6	4	E 8018 B2	Flat	No Limit	No Limit	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
20	Mumtaz Alam	15	W-MU	BAPL/WPS-005	BAPL/PQR-005	GTAW	Manual	Groove	4 to 4	WC6	6	ER80S-B2	Flat	24 mm	24 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
								Filet	4 to 4	WC6	6	ER80S-B2	Flat	No Limit	No Limit	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		

(Signature)

(Signature)

Exhibits Welding Process:



QW-482 WELDING PROCEDURE SPECIFICATION (As Per ASME Section IX)		
Company Name BLISS ANAND By: VINOD KUMAR KATARIA		
Welding Procedure Spec. No. WPS-BA-101 Revision No. 01 Date 01/05/2015		
Supporting PQR No. PQR-BA-101 Revision No. 00 Date 09/08/2010		
Welding Process(es) GTAW + SMAW		
Type(s) MANUAL		
JOINTS:(QW-402)		
Joint Design SINGLE 'V'		
Backing(Yes) NO		
Backing Material(Type) NOT APPLICABLE		
*Metal *Nonfusing Metal		
*Nonmetallic *Other		
NOTE: For dia ≤ 50mm and thk ≤ 5mm, joint shall be welded with GTAW		
*BASE METAL:(QW-403)		
P.No. 8 Group No. 1 to P.No. 8 Group No. 1		
OR		
Specification type and grade ASTM A - 312 TP - 316L		
to specification type and grade ASTM A - 312 TP - 316L / ASTM A 182 F 316L		
OR		
Chem. Analysis and Mech. Prop. -		
to Chem. Analysis and Mech. Prop. -		
Thickness Range :		
Base Metal : Groove 1.5 - 9 mm Fillet ALL SIZES		
Other -		
FILLER METAL (QW-404)		
Specification No. SFA 5.9		
AWS No. ER 316 L		
F-No 6		
A-No. 8		
Size of Filler Metals Ø 1.6 & 2.0 mm		
Weld Metal Thickness Range		
Groove 1.5 to 4mm		
Fillet ALL SIZES		
Electrode-Flux(Class) -		
Flux Trade Name -		
Filler wire product form Solid Wire (Bare)		
Consumable Insert -		
Others MAKE		
GTAW		
SMAW		
ESAB, BOHLER, AVESTA		
SPECIAL METALS, ELGA		
SANDVIK & METRODE		
SHEET : 1/2		

WPS No WPS-BA-101 Rev. 1	
POSITION (QW-406)	
position(s) of groove F, H & V	
Welding Progression : Up For Vertical Down NA	
Position(s) of Fillet ALL POSITIONS	
PREHEAT (QW-408)	
Percentage Composition 20° C MIN	
Preheat Temp Min 150° C MAX	
Preheat Temp Max NA	
Preheat Maintenance NA	
POST WELD HEAT TREATMENT (QW-407)	
Temperature Range NOT APPLICABLE	
Time Range NOT APPLICABLE	
Other NOT APPLICABLE	
ELECTRICAL CHARACTERISTICS (QW-409)	
Current AC or DC DC	
Amps (Range) Refer Table Below	
Polarity Refer Table Below	
Volts (Range) Refer Table Below	
Tungsten Electrode Size and type 2 mm Dia 2% Thoriated	
Mode of Metal Transfer for GMAW NOT APPLICABLE	
Electrode Wire feed speed range NOT APPLICABLE	
TECHNIQUE (QW-410)	
String or Weave Bead STRING	
Cracks or Gas Cup Size 5 mm Dia	
Initial and Interpass Cleaning SS WIRE BRUSHING & GRINDING	
Method of Back Gouging (Brushing, Grinding etc) NOT APPLICABLE	
Oscillation NO	
Constant Tube to work Distance SHORT TO MEDIUM ARC	
Multiple or Single Pass(es) MULTIPLE PASS	
Travel Speed(Range) SINGLE	
Pacing REFER TABLE BELOW	
Others NO	
Weld Layer(s)	
Process GTAW	
Filler Metal ER-316L	
Current STRAIGHT (DCEN)	
Voltage 70 - 80	
Travel speed 9 TO 11	
Heat Input 45 TO 50	
KJ/MM 0.35 - 1.19	
ROOT RUN	
Process SMAW	
Filler Metal E-316L-16	
Current REVERSE (DCEP)	
Voltage 60 - 80	
Travel speed 8 TO 10	
Heat Input 80 TO 100	
KJ/MM 0.36 - 0.48	
MANUFACTURER: BLISS ANAND	
INSPECTION AUTHORITY	
Dated : 09/08/2010	
GM OPERATIONS	
SHEET: 2/2	

WPS No WPS-BA-101 Rev. 1	
POSITION (QW-406)	
position(s) of groove F, H & V	
Welding Progression : Up For Vertical Down NA	
Position(s) of Fillet ALL POSITIONS	
PREHEAT (QW-408)	
Percentage Composition 20° C MIN	
Preheat Temp Min 150° C MAX	
Preheat Temp Max NA	
Preheat Maintenance NA	
POST WELD HEAT TREATMENT (QW-407)	
Temperature Range NOT APPLICABLE	
Time Range NOT APPLICABLE	
Other NOT APPLICABLE	
ELECTRICAL CHARACTERISTICS (QW-409)	
Current AC or DC DC	
Amps (Range) Refer Table Below	
Polarity Refer Table Below	
Volts (Range) Refer Table Below	
Tungsten Electrode Size and type 2 mm Dia 2% Thoriated	
Mode of Metal Transfer for GMAW NOT APPLICABLE	
Electrode Wire feed speed range NOT APPLICABLE	
TECHNIQUE (QW-410)	
String or Weave Bead STRING	
Cracks or Gas Cup Size 5 mm Dia	
Initial and Interpass Cleaning SS WIRE BRUSHING & GRINDING	
Method of Back Gouging (Brushing, Grinding etc) NOT APPLICABLE	

Exhibits Welding Process:


BLISS ANAND PVT LTD
(Establishments & Welfare)
ISO 9001:2015 Certified
Gujarat, India, Pin-382 005
Export of Service Processed Policy Values

Master List Of WPS & PQR

Doc No.	BAPL/ML/WPS
Rev. No.	C
Date	22/04/2016
Page	Page 1 of 1

SRV

Sl. No.	WPS #	PQR #	Qualification Date	Welding Process	Process Type	Weld Type	Qualified P. No.	Grade	Qualified F No.	Filler / Electrode	Position Qualified Plate	Max. Weld Deposit Qualified	Max. Base Metal Thk Qualified
1	BAPL/WPS-001	BAPL/PQR-001	29-Nov-12	GTAW	Manual	Hard Facing Overlay	8	CF8M	72	ERCoCr-A	Flat	No Limit	No Limit
2	BAPL/WPS-002	BAPL/PQR-002	29-Nov-12	SMAW	Manual	Groove	1 to 1	WCB	4	E 7018	Flat	24 mm	24 mm
						Fillet	1 to 1	WCB	4	E 7018	Flat	No Limit	No Limit
3	BAPL/WPS-003	BAPL/PQR-003	29-Nov-12	GTAW	Manual	Groove	1 to 1	WCB	6	ER 70S-2	Flat	24 mm	24 mm
						Fillet	1 to 1	WCB	6	ER 70S-2	Flat	No Limit	No Limit
4	BAPL/WPS-004	BAPL/PQR-004	29-Nov-12	GTAW	Manual	Groove	4 to 4	WC6	4	E 8018 B2	Flat	24 mm	24 mm
						Fillet	4 to 4	WC6	4	E 8018 B2	Flat	No Limit	No Limit
5	BAPL/WPS-005	BAPL/PQR-005	29-Nov-12	GTAW	Manual	Groove	4 to 4	WC6	6	ER80S-B2	Flat	24 mm	24 mm
						Fillet	4 to 4	WC6	6	ER80S-B2	Flat	No Limit	No Limit
6	BAPL/WPS-006	BAPL/PQR-006	29-Nov-12	GTAW	Manual	Groove	8 to 8	CF8M	5	E 316	Flat	24 mm	24 mm
						Fillet	8 to 8	CF8M	5	E316	Flat	No Limit	No Limit
7	BAPL/WPS-007	BAPL/PQR-007	29-Nov-12	GTAW	Manual	Groove	8 to 8	CF8M	5	ER-316	Flat	24 mm	24 mm
						Fillet	8 to 8	CF8M	5	ER-316	Flat	No Limit	No Limit
8	BAPL/WPS-008	BAPL/PQR-008	20-Dec-2014	GTAW	Manual	Groove	45 to 45	Alloy 20	6	ER320LR	Flat	24 mm	24 mm

LG/ MLG

9	WPS-BA-003	PQR-BA-003	22.03.2004	GTAW + SMAW	Manual	Groove	1 to 1	SA 106 Gr.B	6, 4	ER 70 SG, E7018	Flat	9.1 mm	9.1 mm
10	WPS-BA-007	PQR-BA-007	15.05.2007	GTAW + SMAW	Manual	Groove	1 to 8	SA 312TP316L TO SA106 GrB	6, 5	ER 309L, E309L-16	Flat	9.0 mm	9.0 mm
11	WPS-BA-009	PQR-BA-009	05.08.2008	GTAW + SMAW	Manual	Groove	1 to 1	SA333 Gr6 TO SA333 Gr6	6, 4	ER 70 SG, E7018-G	Flat	9.0 mm	9.0 mm
12	WPS-BA-101	PQR-BA-101	09.08.2010	GTAW + SMAW	Manual	Groove	8 to 8	SA 312TP316L TO SA 312TP316L/ SA182F316L	6, 5	ER 316L, E316L	Flat	9.0 mm	9.0 mm
13	WPS-BA-102	PQR-BA-102	25.09.2010	GTAW	Manual	Groove	45 to 45	SB423 TO SB423 (UNS N08825)	45	ER NiCrMo-3	Flat	9.0 mm	9.0 mm
14	WPS-BA-103												
15	WPS-BA-105	PQR-BA-105	06.06.2010	GTAW	Manual	Groove	43 to 43	SB444 (UNS N06625) TO SB 444	43	ER NiCrMo-3	Flat	11.0 mm	11.0 mm
16	WPS-BA-106	PQR-BA-106	09.08.2010	GTAW	Manual	Groove	10H to 10H	SA790 TO SA790 (UNS S32750)	6	ER 2594	Flat	1.5 mm to 9.0 mm	9.0 mm
17	WPS-BA-107	PQR-BA-107	22.11.2011	GTAW	Manual	Groove	42 to 42	SB456 TO SB456 (UNS N04400)	42	ER NiCu-7	Flat	9.0 mm	9.0 mm
18	WPS-BA-111	PQR-BA-111	09.08.2010	GTAW	Manual	Groove	8 to 8	SA 312TP UNS S31254	43	ER NiCrMo-3	Flat	1.5 mm to 9.0 mm	9.0 mm

Head - Quality Assurance

Exhibits QUALIFIED WELDERS:

 BLISS ANAND PVT LTD Manufacturers & Exporters Specialty Steels & Welding Services Supplies & Services since 1985 Patent No. of Tensar Process Welding System													Doc No.		BAPL/ML/WPQ - 2			
													Rev. No.		A			
													Date		22/06/2015			
													Page		Page 1 of 2			
Sl. No.	WELDER NAME	CLOCK NO.	STAMP NO.	WPS #	PQR #	Welding Process	Process Type	Weld Type	Qualified P. No.	Grade	Qualified F No.	Filler / Electrode	Position Qualified Plate	Max. Weld Deposit Qualified	Max. Base Metal Thk. Qualified	CERTIFYING AGENCY		
21	Mumtaz Alam	15	W-MU	BAPL/WPS-005	BAPL/PQR-006	GTAW	Manual	Groove	8 to 8	CF8M	5	E 316	Flat	24 mm	24 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
								Filet	8 to 8	CF8M	5	E316	Flat	No Limit	No Limit	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
22	Mumtaz Alam	15	W-MU	BAPL/WPS-007	BAPL/PQR-007	GTAW	Manual	Groove	8 to 8	CF8M	5	ER-316	Flat	24 mm	24 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
								Filet	8 to 8	CF8M	5	ER-316	Flat	No Limit	No Limit	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
23	Mumtaz Alam	15	W-MU	BAPL/WPS-008	BAPL/PQR-008	GTAW	Manual	Groove	45 to 45	Alloy 20	6	ER320LR	Flat	24 mm	24 mm	ABS INDUSTRIAL VERIFICATION (INDIA)/ BAPL		
24	Satish Chand Meena	16	W-SM	WPS-BA-101	PQR-BA-101	GTAW + SMAW	Manual	Groove	8 to 8	SA 312TP316L TO SA 312TP316L/ SA182F316L	5, 5	ER 316L, E316L	Flat	1.5 to 9.0 mm	1.5 to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
25	Satish Chand Meena	16	W-SM	WPS-BA-111	PQR-BA-111	GTAW	Manual	Groove	8 to 8	SA 312TP UNS S31254	43	ER NiCrMo-3	Flat	1.5 to 9.0 mm	1.5 to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
26	Satish Chand Meena	16	W-SM	WPS-BA-105	PQR-BA-105	GTAW	Manual	Groove	43 to 43	SB 444 TO SB 444 (UNS N06625)	43	ER NiCrMo-3	Flat	11.0 mm	1.5 to 11.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
27	Jetha Ram	18	W-JR	WPS-BA-101	PQR-BA-101	GTAW + SMAW	Manual	Groove	8 to 8	SA 312TP316L TO SA 312TP316L/ SA182F316L	6, 5	ER 316L, E316L	Flat	1.5 to 9.0 mm	1.5 to 9.0 mm	ABS INDUSTRIAL VERIFICATION (INDIA)/ BAPL		
28	Jetha Ram	19	W-JR	WPS-BA-111	PQR-BA-111	GTAW	Manual	Groove	8 to 8	SA 312TP UNS S31254	43	ER NiCrMo-3	Flat	1.5 to 9.0 mm	1.5 to 9.0 mm	TUV INDUSTRIAL INSPECTION SERVICES (INDIA)/ BAPL		
 Rajesh Bawari Head - Quality Assurance  Quality Assurance BAPL 																		

Exhibits MASTER LIST OF WPS & PQR:

BLISS ANAND PVT LTD
Pharmaceutical & Medical
Welding, Fabrication & Erection
Supplies Services Since 1985 ISO 9001
Prestigious Work of Various Industries Being Undertaken

Master List Of WPS & PQR

Doc No.	BAPL/ML/WPS
Rev. No.	C
Date	22/06/2015
Page	Page 1 of 1

SRV

Sl. No.	WPS #	PQR #	Qualification Date	Welding Process	Process Type	Weld Type	Qualified P. No.	Grade	Qualified F No.	Filler / Electrode	Position Qualified Plate	Max. Weld Deposit Qualified	Max. Base Metal Thk. Qualified
1	BAPL/WPS-001	BAPL/PQR-001	29-Nov-12	GTAW	Manual	Hard Facing	8	CF8M	72	ERCoCr-A	Flat	No Limit	No Limit
2	BAPL/WPS-002	BAPL/PQR-002	29-Nov-12	GTAW	Manual	Overlaid Groove	1 to 1	WCB	4	E 7018	Flat	24 mm	24 mm
3	BAPL/WPS-003	BAPL/PQR-003	29-Nov-12	GTAW	Manual	Fillet	1 to 1	WCB	4	E 7018	Flat	No Limit	No Limit
4	BAPL/WPS-004	BAPL/PQR-004	29-Nov-12	GTAW	Manual	Groove	1 to 1	WCB	6	ER 705-2	Flat	24 mm	24 mm
5	BAPL/WPS-005	BAPL/PQR-005	29-Nov-12	GTAW	Manual	Fillet	1 to 1	WCB	6	ER 705-2	Flat	No Limit	No Limit
6	BAPL/WPS-006	BAPL/PQR-006	29-Nov-12	GTAW	Manual	Groove	4 to 4	WC6	4	E 8018 B2	Flat	24 mm	24 mm
7	BAPL/WPS-007	BAPL/PQR-007	29-Nov-12	GTAW	Manual	Fillet	4 to 4	WC6	4	E 8018 B2	Flat	No Limit	No Limit
8	BAPL/WPS-008	BAPL/PQR-008	29-Nov-12	GTAW	Manual	Groove	4 to 4	WC6	6	ER805-B2	Flat	24 mm	24 mm
9	BAPL/WPS-009	BAPL/PQR-009	29-Nov-12	GTAW	Manual	Fillet	4 to 4	WC6	6	ER805-B2	Flat	No Limit	No Limit
10	BAPL/WPS-010	BAPL/PQR-010	29-Nov-12	GTAW	Manual	Groove	8 to 8	CF8M	5	E 316	Flat	24 mm	24 mm
11	BAPL/WPS-011	BAPL/PQR-011	29-Nov-12	GTAW	Manual	Fillet	8 to 8	CF8M	5	E 316	Flat	No Limit	No Limit
12	BAPL/WPS-012	BAPL/PQR-012	29-Nov-12	GTAW	Manual	Groove	8 to 8	CF8M	5	ER-316	Flat	24 mm	24 mm
13	BAPL/WPS-013	BAPL/PQR-013	29-Nov-12	GTAW	Manual	Fillet	8 to 8	CF8M	5	ER-316	Flat	No Limit	No Limit
14	BAPL/WPS-014	BAPL/PQR-014	20-Dec-2014	GTAW	Manual	Groove	45 to 45	Alloy 20	6	ER320LR	Flat	24 mm	24 mm

LG/ MLG

9	WPS-BA-003	PQR-BA-003	22.03.2004	GTAW + SMAW	Manual	Groove	1 to 1	SA 106 Gr.B	6, 4	ER 70 S6, E7018	Flat	9.1 mm	9.1 mm
10	WPS-BA-007	PQR-BA-007	15.05.2007	GTAW + SMAW	Manual	Groove	1 to 8	SA 312TP316L TO SA106 GrB	6, 5	ER 309L, E309L-15	Flat	9.0 mm	9.0 mm
11	WPS-BA-009	PQR-BA-009	05.08.2008	GTAW + SMAW	Manual	Groove	1 to 1	SA333 Gr6 TO SA333 Gr6	6, 4	ER 70 S6, E7018-G	Flat	9.0 mm	9.0 mm
12	WPS-BA-101	PQR-BA-101	09.08.2010	GTAW + SMAW	Manual	Groove	8 to 8	SA 312TP316L TO SA 312TP316L/ SA182F316L	6, 5	ER 316L, E316L	Flat	9.0 mm	9.0 mm
13	WPS-BA-102	PQR-BA-102	25.09.2010	GTAW	Manual	Groove	45 to 45	SB423 TO SB423 (UNS N08825)	45	ER NiCrMo-3	Flat	9.0 mm	9.0 mm
14	WPS-BA-103	PQR-BA-103	05.05.2010	GTAW	Manual	Groove	43 to 43	SB444 (UNS N06625) TO SB 444	43	ER NiCrMo-3	Flat	11.0 mm	11.0 mm
15	WPS-BA-105	PQR-BA-105	09.08.2010	GTAW	Manual	Groove	10H to 10H	SA790 TO SA790 (UNS S32750)	6	ER 2594	Flat	1.5 mm to 9.0 mm	9.0 mm
16	WPS-BA-107	PQR-BA-107	22.11.2011	GTAW	Manual	Groove	42 to 42	SB456 TO SB456 (UNS N04400)	42	ER NiCu-7	Flat	9.0 mm	9.0 mm
17	WPS-BA-109	PQR-BA-109	09.08.2010	GTAW	Manual	Groove	8 to 8	SA 312TP UNS S31254	43	ER NiCrMo-3	Flat	1.5 mm to 9.0 mm	9.0 mm


Rajesh Chandel
Head - Quality Assurance





Global References & Approvals:





Thank You!

Any Questions?

Website: www.blisseurope.eu