

Hirgan Energy co.

Date: 19. Nov. 2022
No: TJ/01/11776/03

QUOTATION FOR PRESSURE VESSEL

Project: Binak Oilfield Development – Surface Facilities; New Gas Compressor Station.
Equipment: PRESSURE VESSEL
MR. No.: BK-GCS-PEDCO-120-ME-MR-0003_D01

Dear Sirs,

Thank you for your interest in our packages
We herewith have pleasure in providing you with our proposal for subject project.

Attached please find our quotation overview, terms and conditions, and the technical specifications.
We are looking forward to your reply with interest.

Technical Notes

Please refer to attached files.

Scope of Supply and Work:

Design, Provision of Material, Fabrication, Assembly, Shop tests and Inspection, Painting, Marking, and packing of bellow mentioned air receiver/ pressure vessels with all related accessories

- All Vessel attachments (such as, clips, lifting lugs, earthing and etc.)
- All nozzles as per related data sheets
- Saddles as requested
- Gaskets, bolts and nuts for all blind flanges and manholes
- Painting of external
- Distributors and their support
- Mist eliminator/Coalescer/Demister with grids and/or support beam as per requirement in data sheet and specifications
- Internal baffles and their supports & clips
- Vortex breaker
- Internal pipes and elbow with flange and their supports & clips
- Spray Nozzle and their clips and supports
- Circular baffle / deflector
- Support for grids (Where required)
- Removable internal pipes incl. Half Pipes, Feed Diffusers, Special distributor's pipes with gaskets and bolts and nuts
- Internal Bolt & Nuts (Except subject to those internals which are not in Vendor's scope of supply)
- External supports & attachments, clips for piping (wherever required)

COMMERCIAL BID

Prices

All prices mentioned in this quotation are strictly net, based on one closed order for the indicated quantity, fixed for the duration of the contract and valid for ex works delivery.

Validity

This offer is valid for 2 months.

Price schedule

The price schedule for the materials as described in this quotation including all related non-material requirements is as follows:

Item	Qty	Equipment Tag no.	Description	Price unit [EUR]	Price total [EUR]
1	1	V-2105	Inlet Gas K.O. Drum Including: <ul style="list-style-type: none"> - 1500x 4500 (ID x TL-TL) mm Horizontal tank with 2:1 Ellip. head - Material: A 516 Gr. 60N - NACE MR0175/ISO 15156 - Thickness shell/ head: 12mm / 10mm after forming including 6 mm C.A - Design pressure: 9 barg - Design Temperature: +0/85 °C - Corrosion Allowance: 6 mm - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 19.5 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Internal: Demister - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006. - PWHT: Yes - Weight: 3212.27 kg 		
2	3	V-2101 A/B/C	1st STAGE G.C. SUCTION DRUMS Including: <ul style="list-style-type: none"> - 900x 3000 (ID x TL-TL) mm Vertical tank with 2:1 Ellip. head - Material: A 516 Gr. 60N - NACE MR0175/ISO 15156 - Thickness shell/ head: 12mm / 10mm after forming including 6 mm C.A - Design pressure: 9 barg / F.V. - Design Temperature: +0/85 °C - Corrosion Allowance: 6 mm - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 19.5 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Internal: Demister - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006, and BK-GNRAL-PEDCO-000-PI-SP-0007. - PWHT: Yes - Weight: 1002.26 kg 		
3	3	V-2102 A/B/C	2nd Stage G.C. Suction Drums Including: <ul style="list-style-type: none"> - 900 x 3000 (ID x TL-TL) mm Vertical tank with 2:1 Ellip. head - Material: A 516 Gr70 + 3mm Clad SS 316L 		

Item	Qty	Equipment Tag no.	Description	Price unit [EUR]	Price total [EUR]
			<ul style="list-style-type: none"> - NACE MR0175/ISO 15156 - Thickness shell/ head: 8mm / 4mm. - Design pressure: 22 barg / F.V. - Design Temperature: 115.4°C - Corrosion Allowance: - - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 40 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Internal: Demister - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006, and BK-GNRAL-PEDCO-000-PI-SP-0007. - PWHT: Yes - Weight: 961.63 kg 		
4	1	V-2103	Discharge Gas K.O. Drum Including: <ul style="list-style-type: none"> - 900x 3000 (ID x TL-TL) mm Vertical tank with 2:1 Ellip. head - Material: A 516 70N + 3mm Clad 316L. - NACE MR0175/ISO 15156 - Thickness shell/ head: 22mm / 12mm - Design pressure: 62 barg / F.V. - Design Temperature: 130 °C - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 122.8 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Internal: Demister pad with 15mm thickness. - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006, and BK-GNRAL-PEDCO-000-PI-SP-0007. - PWHT: Yes - Weight: 2337.1 kg 		
5	1	V-2206	Diesel Oil Drum Including: <ul style="list-style-type: none"> - 2300x 6000 (ID x TL-TL) mm Horizontal tank with 2:1 Ellip. head - Material: SA 516 70 - NACE MR0175/ISO 15156 - Thickness shell/ head: 14mm / 6mm after forming including 1.6 mm C.A - Design pressure: 3.5 barg - Design Temperature: 85 °C - Corrosion Allowance: 1.6 mm - Design code: ASME Sec. VIII, Div. 1 		

Item	Qty	Equipment Tag no.	Description	Price unit [EUR]	Price total [EUR]
			<ul style="list-style-type: none"> - Hydro test at 11.5 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006, and BK-GNRAL-PEDCO-000-PI-SP-0007. - PWHT: Yes - Weight: 57936.46 kg 		
6	1	V-2203	Instrument Air Receiver Including: <ul style="list-style-type: none"> - 1500x 5000 (ID x TL-TL) mm Vertical tank with 2:1 Ellip. head - Material: A 516 Gr. 70 - Thickness shell/ head: 10mm / 6mm after forming including 1.6 mm C.A - Design pressure: 12.5 barg - Design Temperature: +85 °C - Corrosion Allowance: 1.6 mm - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 24.8 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006. - PWHT: Yes - Weight: 5165.48 kg 		
7	1	V-2204	Nitrogen Receiver: Including: <ul style="list-style-type: none"> - 1050x 3150 (ID x TL-TL) mm Vertical tank with 2:1 Ellip. head - Material: A 516 Gr. 70 - Thickness shell/ head: 8mm / 4mm after forming including 1.6 mm C.A - Design pressure: 12.5 barg - Design Temperature: +85 °C - Corrosion Allowance: 1.6 mm - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 24.8 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006, and BK-GNRAL-PEDCO-000-PI-SP-0007. - PWHT: Yes - Weight: 851.74 kg 		
8	1	V-2202	Close Drain Drum		

Item	Qty	Equipment Tag no.	Description	Price unit [EUR]	Price total [EUR]
			Including: - 2600 x 7800 (ID x TL-TL) mm Horizontal tank with 2:1 Ellip. head - Material: A 516 70N - NACE MR0175/ISO 15156 - Thickness shell/ head: 20 mm / 10 mm after forming including 6 mm C.A - Design pressure: 7.5 barg - Design Temperature: +85 °C - Corrosion Allowance: 6 mm - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 17.25 barg - RT for Head/ Shell: 100% / 100% - PT: 100% - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006, and BK-GNRAL-PEDCO-000-PI-SP-0007. - PWHT: Yes - Weight: 11857.19 kg		
9	1	V-2201	Flare K.O. Drum Including: - 1000x 3000 (ID x TL-TL) mm Horizontal tank with 2:1 Ellip. head - Material: A 516 Gr. 70N - NACE MR0175/ISO 15156 - Thickness shell/ head: 10mm / 6mm after forming including 3.2 mm C.A - Design pressure: 7.5 barg - Design Temperature: +85 °C - Corrosion Allowance: 3.2 mm - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 17.25 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006, and BK-GNRAL-PEDCO-000-PI-SP-0007. - PWHT: Yes - Weight: 1228.37 kg		
10	1	V-2205	Fuel Gas K.O. Drum Including: - 438 x 2950 (ID x TL-TL) mm Vertical tank with 2:1 Ellip. head - Material: Shell: A 106 Gr B (18" Pipe, Sch. STD), Head: A 516 Gr. 60 N. - NACE MR0175/ISO 15156 - Thickness shell/ head: 10mm / 8mm after		

Item	Qty	Equipment Tag no.	Description	Price unit [EUR]	Price total [EUR]
			forming including 6mm C.A - Design pressure: 9 barg / F.V. - Design Temperature: +85 °C - Corrosion Allowance: 6 mm - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 19.5 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Internal: Demister - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006. - PWHT: Yes - Weight: 387.89 kg		
11	1	V-2104	Sludge Catcher Including: - 4200 x 12600(ID x TL-TL) mm Horizontal tank with 2:1 Ellip. head - Material: A 516 Gr. 60 N - NACE MR0175/ISO 15156 - Thickness shell/ head: 30mm / 14mm after forming including 6mm C.A - Design pressure: 9 barg - Design Temperature: 85 °C - Corrosion Allowance: 6 mm - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 19.5 barg - RT for Head/ Shell: 100% / 100 % - PT: 100% - Internal: Demister - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006 and BK-GNRAL-PEDCO-000-PI-SP-0007. - PWHT: Yes - Weight: 45459.67 kg		
12	1	V-2107	Glycol Sump Drum Including: - 1100 x 3600(ID x TL-TL) mm Horizontal tank with 2:1 Ellip. head - Material: A 516 70 - NACE MR0175/ISO 15156 - Thickness shell/ head: 10mm / 6mm after forming including 3 mm C.A - Design pressure: 3.5 barg - Design Temperature: +85 °C - Corrosion Allowance: 3mm - Design code: ASME Sec. VIII, Div. 1 - Hydro test at 7.5 barg		

Item	Qty	Equipment Tag no.	Description	Price unit [EUR]	Price total [EUR]
			<ul style="list-style-type: none"> - RT for Head/ Shell: 100% / 100 % - PT: 100% - Painting and Coating: As per project Specification for Painting, Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006 and BK-GNRAL-PEDCO-000-PI-SP-0007. - PWHT: Yes - Weight: 1440.92 kg 		
13	12	-	Spare parts: <ul style="list-style-type: none"> - 2x gasket for blind flanges for each flange - 2x bolt and nuts for blind flanges for each flange 		
Total price EXW Tehran Javan Shop					
Packing & Transportation to client site					
Total price					

Exclusions:

- Deluge system
- Foundation anchor bolts
- Traps foundation
- Civil work at site
- Instrumentation

Option

Item	Qty	Description	Price unit [EUR]	Price total [EUR]
101		-		

Terms of Payment:

We propose the following stage payments:

- | | |
|--------------------------|---|
| 1 st Payment: | 50% of P/O Amount upon receipt of order confirmation and down payment invoice. |
| 2 nd Payment | 45% of P/O Amount against release note |
| 3 rd Payment: | 5% of P/O Amount after successful delivery to site and submission of vendor data book |

Delivery time

20 weeks after down payment

Guarantees

The offered materials are warranted for a period of 12 months after start-up with a maximum of 18 months after delivery date. Normal wear and tear parts are excluded from this **Guarantees**.

Best regards

Ali Hejazi

Managing Director

