

دفتر الشروط الفنية
تأمين متممات أنابيب
Tender Book
to supply, pipe Fitting

المواد المطلوبة : مبينة وفق الجداول المرفقة عدد (١٢) اثني عشر (١٤) صفحة فقط لا غير .

مدة التنفيذ : /١٨٠/ مائة و ثمانون يوماً من تاريخ أمر المباشرة.

مكان الاستلام: أرض أحد المرافئ في الجمهورية العربية السورية .

الاستلام: : الطلبية غير قابلة للتجزئة.

مدة الضمان : /١٨٠/ مائة و ثمانون يوماً من تاريخ صدور محضر الاستلام المؤقت

١- يتحمل المتعهد كافة النفقات والرسوم التالية:

- كافة النفقات المترتبة خارج القطر (كافة الأجور والمصاريف والضرائب والرسوم والطوابع وأجور النقل من بلد الصانع وغيرها) حتى وصول المواد إلى أرض أحد المرافئ في سورية إضافة إلى طابع العقد و كافة الرسوم المالية المرتبطة بذلك.

- التأمين على المواد من المصنع إلى أرض أحد المرافئ في سورية.

The contractor shall bear the following duties and expenses:

- All expenses outside Syria (all costs, charges, taxes, fees, stamps ...etc and transportation charges) until the material arrival to the Syrian port, Add to stamp fees Contract and All taxes and duties imposed with that
- Insurances of materials from the manufacture workshop to the land of one of Syrian port land.

تتحمل الشركة السورية للغاز كافة النفقات والرسوم التالية:

- كافة النفقات والمصاريف والضرائب والرسوم والطوابع وغيرها داخل القطر (المرتبطة بنقل المواد)
- نفقات التخليص وكافة الرسوم الجمركية وملحقاتها ورسوم المرفأ على اختلافها وأجور الساحات المخزنية في سوريا.

Syrian gas company has all the following expenses and fees:

- All expenses taxes, fees, stamps etc in Syria ,Related to transporting materials.
- Costume clearance expenses and procedures and all various port charges in Syria

Tender Book to supply pipe Fitting

1 - SCOP OF WORK:

contractor shall supply seamless fittings according, but not limited to the following conditions:

1. All **fittings** should be new and not be renewed (**seamless**) **sour service**.
2. All **fittings** shall be carbon steel, grade and wall thickness according to bill of quantity.
3. ALL fittings materials shall be sour service and comply with **NACE STANDARD MR.01-75 latest rev.**
4. **Gaskets** materials and design comply with Asme B16.20 –1993 & latest Rev) standard.
5. Stud bolts and nuts materials and design comply with (ASTM A193 gradeB7) standard.
6. **Marking, fittings** are marked by low –stress stamping ,marking shall include : type and grade of material , diameter, heat no. , schedule or wall thickness, manufacture in accordance the mill test certificates.
7. **hardness : fittings** manufactured according to A 234 WPB should be 197 HB maximum,
8. **heat treatment** : All **fittings** shall be **heat treated** according to **ASTM 234 WPB requirments** one of the following methods: **normalizing , (cold formed) or (hot formed or forged) or (hot formed))** and shall be **normalized**.
9. All **fittings** dimensions and tolerances and bevels end according to (ANSI B-16.9) (ASME B-16.11),and applicable standards .
10. All elbow 90°AND 45° should be long radius.
11. All TEES manufactured from carbon steel A105 or A105 N shall be **forged, heat treatment acc...**
12. **Barred Tees** shall be produced by material in accordance with bill of quantities; fitted with guide bars and cross bars manufactured from carbon steel; numbers of bars compatible with the barred tee size. The barred tees shall be prepared by welding of bars inside the tee, and must be double fillet weld, along the whole bar width (seal weld). such welds must be executed and stress-relieving by suitable heat treatment according to qualified procedure. **Non-Destructive Tests** inspection shall be performed for all surfaces of tees body and seal weld by (ultrasonic test), the examination and Hydrotest shall be performed (72) hours after (stress- Relieving, heat treatment).
13. All **fittings** shall be have the same nominal thickness as pipe attach, by transition contours .
14. repair defects by welding is not permitted on body of **fittings**.
15. No any cracks is permitted on the body of **fittings** at all.
Bevel end: shall be according to ANSI (B 16 .9) . single vee groove if (t< 19mm)
Double vee groove greater than >19mm.
18. **Painting** :All **fittings** have to be painted by black paint for outdoors storage .
19. **packing : fittings** should be enclosed within wood boxes for transportation not more than 400KG weight.

Note the Manufacture /vendor should take in consideration all notes mention in bill of quantity, during manufacturing and testing.

2- REFERENCE DOCUMENTS:

The design construction and testing of the material shall comply with the following Codes and standards:

- ASTM 105 ASTM A234 GR.WPB, ASTM A370, A751, E 709 . (LATAST REV.)
 - NACE STD MR-01-75 (LATAST REV.)
 - ANSI B 16-9, ANSI B 16-11ANSI B 31.3 ASME SEC V code (LATAST REV.)
- ANY CODES &STANDARDS ARE REQUESTED IN THE CODES &STANDARDS ABOVE SHALL BE APPLY.

3 – PRIORITY:

In case of any discrepancy or conflict arises or exists between specification and codes, The severe specification shall apply with this priority:

- a- this material requisition and its attachment. b- International codes and standards
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4 – PROCUREMENT:

4-1 : the company has the right to reject any material not according specification without any increase in the contract price or change in the delivery time.

5-TESTING: All tests (non-destructive test& hydrostatic test) should be performed(72hours) after heat treatment applied . to ensure that there are no latent cracks.

5.1 **hydrostatic test** (leakage test) : ALL **fittings** shall be tested by the manufacturer **IF APPLICABLE** AND shall withstanding without any leakage through the PIECE wall (body).

Note: company refer to performed hydrostatic test.

5-2 **non-destructive test:** all seamless **fittings** (A234 WPB&a105) Should be inspected AND tested BY magnetic particle inspection (MPI), Acceptance limit according to ASME and applicable code except item (12) in this scope **IS prohibited**

5-3 **visual inspection:** All surfaces of **fittings** shall be visually examined, any defects out of acceptance limits shall be removed by machining or grinding and shall be examined by(MPI), the wall thickness at any point shall be at least **(87.5 %)** of the specified nominal wall thickness.

6 - INSPECTION:

CONTRACTOR/vendor shall be responsible for the Inspection and testing of material in the manufacturers shop in order to ensure conformance to the material requisition and specifications.

7 - DOCUMENT AND CERTIFICATION TO BE SUBMITTED:

7-1: **fittings** must be certified in accordance to RELATED STANDARDS with certification.

7-2 The contractor must provide all document listed below with the shipment , All document submitted should be written in English.

Item	document	
1	Origin & name of manufacturer	1 copy Final
2	Heat treatment procedures	1 copy Final
3	Non destructive test procedures	1 copy Final
4	Hydrotest procedures if applicable	1 copy Final
5	Cleaning & Painting procedure	1 copy Final
6	Mill certificate & all Acceptance tests certificates	1 copy Final
7	Drawing for FITTINGS	1 copy Final
8	Packing list	1 copy Final.

8-UNITS OF MEASUREMENT

- All unit on fitting body and document shall be based on system international unites and their Fragment .
- The following exception to SI unit is required to be used :

pipe diameter : inch
pressure : bar
temperature : C°

مدير تطوير واستثمار الغاز الطبيعي

المهندس أكثم صقر

يعتمد المدير العام
المهندس امين الداغري

Flange A105											القيمة			
											ليرة سورية		دولار أمريكي	
item	DESCREPTION	NPS	Class	Sch	QTY	Price	Amount	Price	Amount					
1	WN Flange	3" X 1"	150	80*160	1									
2	WN Flange	4"X 1"	150	80*160	1									
3	WN Flange	2"	150	80	8									
4	WN Flange	4"	150	40	8									
5	WN Flange	2"	300	80	8									
6	WN Flange	10"	300	80	2									
7	WN Flange	1"	600	80	8									
8	WN Flange	2"	600	80	8									
9	WN Flange	3"	600	80	13									
10	WN Flange	4"	600	80	20									
11	WN Flange	6"x1"	600	80*160	1									
12	WN Flange	6"	600	80	20									
13	WN Flange	8"	600	80	9									
14	WN Flange	10"	600	80	11									
15	WN Flange	12"	600	80	8									
16	WN Flange	2"	900	120	5									
17	WN Flange	3"	900	80	5									
18	WN Flange	3"	900	120	5									
19	WN Flange	4"	900	80	5									
20	WN Flange	4"	900	120	5									
21	WN Flange	6"	900	80	6									
22	WN Flange	6"	900	120	5									
23	WN Flange	8"	900	120	5									

(Handwritten signature)

Flange A105										ليرة سورية		دولار أمريكي	
item	DESCREPTION	NPS	Class	Sch	QTY	Price	Amount	Price	Amount				
24	WN Flange	8"	900	80	5								
25	WN Flange	12"	900	120	5								
26	WN Flange	16"	900	80	5								
27	WN Flange	1"	1500	160	5								
28	WN Flange	2"	1500	80	2								
29	WN Flange	2"	1500	120	5								
30	WN Flange	2"	1500	XXX	2								
31	WN Flange	2"	1500	160	5								
32	WN Flange	3"	1500	80	2								
33	WN Flange	3"	1500	XXX	2								
34	WN Flange	4"	1500	80	5								
35	WN Flange	4"	1500	120	5								
36	WN Flange	4"	1500	160	5								
37	WN Flange	4"	1500	XXX	5								
38	WN Flange	6"	1500	80	3								
39	WN Flange	6"	1500	XXX	3								
40	WN Flange	6"	1500	160	5								
41	WN Flange	6"	1500	120	5								
42	WN Flange	2 1/16"	5000 PSI	160	7								
43	WN Flange	2 1/16"	10000 PSI	160	7								
Remark: All material according ASTM A105 , ANSI B16.5 RF													

Blind Flange					القيمة			
item	DESCREPTION	NPS	class	QTY	ليرة سورية		دولار أمريكي	
					Price	Amount	Price	Amount
1	Blind Flange	4"	150	5				
2	Blind Flange	6"	150	5				
3	Blind Flange	8"	150	5				
4	Blind Flange	10"	150	5				
5	Blind Flange	12"	150	5				
6	Blind Flange	4"	300	5				
7	Blind Flange	6"	300	5				
8	Blind Flange	8"	300	5				
9	Blind Flange	10"	300	5				
10	Blind Flange	12"	300	5				
11	Blind Flange	1"	600	5				
12	Blind Flange	2"	600	5				
13	Blind Flange	3"	600	5				
14	Blind Flange	4"	600	5				
15	Blind Flange	6"	600	5				
16	Blind Flange	8"	600	5				
17	Blind Flange	10"	600	5				
18	Blind Flange	12"	600	5				
19	Blind Flange	14"	600	2				
20	Blind Flange	18"	600	2				
21	Blind Flange	3"	900	2				
22	Blind Flange	4"	900	2				
23	Blind Flange	6"	900	2				
24	Blind Flange	8"	900	2				
25	Blind Flange	10"	900	2				
26	Blind Flange	12"	900	2				
27	Blind Flange	1"	1500	2				
28	Blind Flange	2"	1500	2				
29	Blind Flange	4"	1500	2				
30	Blind Flange	6"	1500	2				

Remark: All material according ASTM A105 , ANSI B16.5 RF

TEE											القيمة		
item	Description	size	Thck (mm)	Sch	Qty pcs	ليرة سورية		دولار أمريكي					
						Price	Amount	Price	Amount				
1	Tee Equal Seamless BW ASME B16.9	3"		80	6								
2	Tee Equal Seamless BW ASME B16.9	4"		80	6								
3	Tee Equal Seamless BW ASME B16.9	6"		80	5								
4	Tee Equal Seamless BW ASME B16.9	8"		80	2								
5	Tee Equal Seamless BW ASME B16.9	10"		80	2								
6	Tee Equal Seamless BW ASME B16.9	12"		80	1								
7	Tee Equal Seamless BW ASME B16.9	3"		120	2								
8	Tee Equal Seamless BW ASME B16.9	4"		120	2								
9	Tee Equal Seamless BW ASME B16.9	6"		120	2								
10	Tee Equal Seamless BW ASME B16.9	8"		120	2								
11	Tee Equal Seamless BW ASME B16.9	10"		120	2								
12	Tee Equal Seamless BW ASME B16.9	12"		120	1								
13	BARRED TEE ANSI B16.9 BW	8"	8.7		1								
14	BARRED TEE ANSI B16.9 BW	10"	8.7		1								
15	BARRED TEE ANSI B16.9 BW	12"	9.5		1								

Remark: All material according ASTM A234 Gr WPB NACE MR0175 /ISO 15156

Reducer Tee Seamless								القيمة			
								ليرة سورية		دولار أمريكي	
ITEM	N.S.P		sch1	sch2	Qty	Price	Amount	Price	Amount		
1	12"	10"	80	80	2						
2	12"	8"	80	80	2						
3	12"	6"	80	80	2						
4	12"	10"	120	120	2						
5	12"	8"	120	120	2						
6	12"	6"	120	120	2						
7	10"	8"	80	80	2						
8	10"	6"	80	80	2						
9	10"	8"	120	120	2						
10	10"	6"	120	120	2						
11	8"	6"	80	80	2						
12	8"	6"	120	120	2						
13	8"	4"	80	80	2						
14	6"	4"	80	80	2						
15	6"	2"	120	120	2						
16	6"	3"	80	80	2						
17	6"	3"	40	80	2						
18	6"	4"	120	120	2						
19	6"	2"	160	160	2						
20	4"	2"	80	80	2						
21	4"	2"	120	120	2						
22	4"	2"	XXS	XXS	5						
23	4"	2"	160	160	5						
24	4"	3"	40	80	2						
25	4"	3"	80	80	2						
26	4"	3"	160	160	5						
27	3"	2"	40	80	2						
28	3"	2"	80	80	2						
29	3"	2"	160	160	2						
30	3"	1 1/2"	80	80	2						
31	2"	1"	80	80	2						
32	6"	3"	160	160	5						
33	6"	4"	XXS	XXS	3						
34	6"	4"	160	160	3						
35	1 1/2"	1"	80	80	2						

Remark: All material according ASTM A234 GR.WPB--ASME B16 Description B.W.RED.TEE SEAMLESS

Ecc.RED° SEAMLESS					القيمة		
item	NOMINAL PIPE SIZE		Sch	QTY	ليرة سورية		دولار أمريكي
					Price	Amount	Price
1	14"	12"	80	1			
2	12"	10"	80	1			
3	12"	10"	120	1			
4	12"	8"	80	1			
5	10"	8"	80	1			
6	8"	6"	80	1			
7	8"	6"	120	1			
8	6"	2"	80	1			
9	6"	4"	80	1			
10	6"	4"	120	1			
11	6"	4"	160	1			
12	6"	3"	80	1			
13	6"	3"	160	1			
14	4"	3"	80	1			
15	4"	3"	120	1			
16	4"	3"	160	1			
17	4"	2"	80	1			
18	4"	2"	160	1			
19	3"	2"	160	1			
20	2"	11/2"	80	1			
21	2"	1"	80	1			
total							

Remark: All material according ASTM A234 GR.WPB--ASME B16 Description Ecc.REDE SEAMLESS

Concentric Reducer

item	DESCREPTION	NOMINAL PIPE SIZE	Sch	QTY	القيمة		
					ليرة سورية	Price	Amount
1	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	12"	80	2			
2	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	12"	80	2			
3	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	12"	80	2			
4	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	12"	120	2			
5	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	12"	120	2			
6	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	12"	120	2			
7	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	10"	80	2			
8	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	10"	80	2			
9	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	10"	120	2			
10	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	10"	120	2			
11	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	8"	80	2			
12	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	8"	120	2			
13	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	8"	80	2			
14	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	8"	120	2			
15	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	8"	160	2			
16	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	6"	80	2			
17	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	6"	120	2			
18	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	6"	160	2			
19	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	6"	80	2			
20	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	6"	160	2			
21	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	6"	80	2			
22	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	4"	80	2			
23	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	4"	120	2			
24	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	4"	160	2			
25	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	4"	40	2			
26	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	4"	80	2			
27	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	4"	160	2			
28	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	3"	80	2			
29	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	3"	160	2			
30	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	3"	80	2			
31	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	2"	80	2			
32	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	2"	80	2			
33	Con. Red. Seamless, ASTM A234 GR. WPB-S, ASME B16.9,	1 1/2"	80	2			

Total

Remark: All material according ASTM A234 GR. WPB--ASME B169 Description Con.Red SEAMLESS

Weldolet										القيمة			
item	Descriptio n	Material	N.P.S	sch	QTY	ليرة سورية		دولار أمريكي					
						Price	Amount	Price	Amount				
1	Weldolet	ASTM A105	1/2"	STD	10								
2	Weldolet	ASTM A105	1"	STD	10								
3	Weldolet	ASTM A105	2"	STD	10								
4	Weldolet	ASTM A105	3"	STD	10								
5	Weldolet	ASTM A105	4"	STD	10								
6	Weldolet	ASTM A105	6"	STD	10								
7	Weldolet	ASTM A105	1/2"	XS	10								
8	Weldolet	ASTM A105	1"	XS	10								
9	Weldolet	ASTM A105	2"	XS	10								
10	Weldolet	ASTM A105	3/4"	XXS	10								
11	Weldolet	ASTM A105	1'	XXS	10								
12	Weldolet	ASTM A105	2"	XXS	10								
13	Weldolet	ASTM A105	3"	XXS	10								
14	Weldolet	ASTM A105	4"	XXS	10								
15	Weldolet	ASTM A105	6"	XXS	10								
Total													

Elbow45° SEAMLESS					القيمة		
					ليرة سورية		دولار أمريكي
item	N.P.S	sch	QTY		Price	Amount	Price
1	3"	80	1				
2	4"	80	1				
3	6"	80	1				
4	8"	80	1				
5	10"	80	1				
6	12"	80	1				
7	3"	120	1				
8	4"	120	1				
9	6"	120	1				
10	8"	120	1				
11	10"	120	1				
12	12"	120	1				
Total							

Remark: All material according ASTM A234 GR.WPB--ASME B16 Descreption Elbow45 LR SEAMLESS

ELBOW 90 LR						القيمة		
						ليرة سورية		دولار أمريكي
item	N.P.S	Sch	Qty	ELBOW 90 LR		Price	Amount	Price
1	2"	80	6	60.3*5.54				
2	3"	80	6	89*7.62				
3	4"	80	6	114*8.56				
4	6"	80	6	168*10.97				
5	8"	80	1	219*12.7				
6	10"	80	1	273*15.09				
7	12"	80	1	323.8*17.48				
8	4"	120	1	114*11.13				
9	6"	120	1	168*14.27				
10	12"	120	1	323.8*25.4				
11	4"	XXS	5	114*17.12				
12	6"	XXS	2	168*21.95				
Total								

Remark: All material according ASTM A234 GR.WPB--ASME B16 Description Elbow 90 LR SEAMLESS

Stud bolts										القيمة	
										ليرة سورية	
										Price	Amount
										Price	Amount
Item	Description	flange size	NO. BOLT	Bolt Dia. (Inch)	length /Inch	length (mm)	Bolts QTY	Price	Amount	Price	Amount
1	ASTM A193 GRADE B7, with 2 Hex Nuts and 2 Washers, ASTM 194 GR2h	3"x1"	4	5/8	3.50	88.9	6				
2		4"x1"	4	5/8	3.50	88.9	6				
3		2"	4	5/8	3.25	82.55	48				
4		4"	8	5/8	3.50	88.9	96				
5		2"	8	5/8	3.50	88.9	96				
6		10"	16	1 1/4	8.50	215.9	48				
7		1"	4	5/8	3.50	88.9	48				
8		2"	8	5/8	4.25	107.95	96				
9		3"	8	3/4	5.00	127	156				
10		4"	8	7/8	5.50	139.7	216				
11		6"x1"	16	1	6.75	171.45	24				
12		6"	12	1	6.75	171.45	324				
13		8"	12	1 1/8	7.50	190.5	162				
14		10"	16	1 1/4	8.50	215.9	264				
15		12"	20	1 1/4	8.75	222.25	240				
16		2"	8	7/8	4.25	107.95	60				
17		3"	8	7/8	5.50	139.7	60				
18		3"	8	7/8	5.50	139.7	60				
19		4"	8	1 1/8	6.75	171.45	60				
20		4"	8	1 1/8	6.75	171.45	60				
21		6"	12	1 1/8	7.50	190.5	90				
22		6"	12	1 1/8	7.50	190.5	90				
23		8"	12	1 3/8	8.75	222.25	90				
24		8"	12	1 3/8	8.75	222.25	90				
25		12"	20	1 3/8	10.00	254	150				
26		16"	20	1 5/8	11.25	285.75	150				
27		1"	4	7/8	5.00	127	30				
28		2"	8	7/8	5.75	146.05	30				
29		2"	8	7/8	5.75	146.05	60				
30		2"	8	7/8	5.75	146.05	30				
31		2"	8	7/8	5.75	146.05	60				

Stud bolts										
Item	Description	flange size	NO. BOLT	Bolt Dia. (Inch)	length /Inch	length (mm)	Bolts QTY	القيمة		
								ليرة سورية	Price	Amount
32	ASTM A193 GRADE B7, with 2Hex Nuts and 2 Washers, ASTM 194 GR2h	3"	8	1 1/8	7.00	177.8	30			
33		3"	8	1 1/8	7.00	177.8	30			
34		4"	8	1 1/4	7.75	196.85	60			
35		4"	8	1 1/4	7.75	196.85	60			
36		4"	12	1 3/8	10.25	196.85	60			
37		4"	12	1 3/8	10.25	196.85	60			
38		6"	12	1 3/8	10.25	260.35	63			
39		6"	12	1 3/8	10.25	260.35	63			
40		6"	8	1 1/8	7.75	260.35	90			
41		6"	8	1 1/8	7.75	260.35	90			
42		2 1/16"		3/4"	4.92	196.85	90			
43		2 1/16"		7/8"	5.71	196.85	90			
44		3/4"		3/4"	4.92	125	25			
45		7/8"		7/8"	5.71	145	100			
46		1"		1"	6.69	170	80			
47		1 1/4"		1 1/4"	8.46	215	32			
48		1 1/8"		1 1/8"	7.48	190	32			
49		1 3/8"		1 3/8"	10.08	256	42			
50		1 7/8"		1 7/8"	12.99	330	24			

RTG Gasket										
item	DESCRIPTION	material	size(inch)		class	QTY	القيمة			دولار أمريكي
			2 1/16"	2 1/16"			Price	Amount	Price	Amount
1	Gasket	API BX,SS316			10000PSI	7				
2	Gasket	API BX,SS316			5000PSI	7				
3	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R11	1/2	300/600	5				
4	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R13	3/4	300/600	5				
5	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R14	3/4	1500	5				
6	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R16	1	300/600/900	5				
7	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R20	1 1/2	300/600/900	5				
8	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R22	2	150	5				
9	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R23	2	300/600	7				
10	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R24	2	1500	5				
11	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R26	2 1/2	300/600	2				
12	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R29	3	150	2				
13	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R31	3	300/600/900	7				
14	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R37	4	300/600/900	7				
15	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R39	4	1500	5				
16	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R45	6	300/600/900	7				
17	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R46	6	1500	2				
18	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R57	12	300/600/900	5				
19	Gasket	Ring type joint(RTG), Oval Or Octagonal .ANSI Bs 16.5.	R69	18	600	7				
20	Gasket	Ring type joint(RTG), Oval .ANSI Bs 16.5. (AMCO) 90 HB	R24D	2"		2				
21	Gasket	Ring type joint(RTG), Oval .ANSI Bs 16.5. (AMCO) 90 HB	R35D	3"		2				
22	Gasket	Ring type joint(RTG), Oval .ANSI Bs 16.5. (AMCO) 90 HB	R39D	4"		2				
23	Gasket	Ring type joint(RTG), Oval .ANSI Bs 16.5. (AMCO) 90 HB	R46D	6"		2				
24	Gasket	Ring type joint(RTG), Oval .ANSI Bs 16.5.Duplex (AMCO)	R49D	8"		1				
Total										

Spiral Wound Gasket										القيمة		دولار امريكي	
item	Description	Thk (mm)	size	class	Qty	Unit	Material, type	ليرة سورية		Price		Amount	
								Price	Amount	Price	Amount	Price	Amount
1	Gasket	4.5	2"	150	12	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
2	Gasket	4.5	2"	300	12	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
3	Gasket	4.5	2"	600	12	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
4	Gasket	4.5	3"	150	5	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
5	Gasket	4.5	3"	300	12	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
6	Gasket	4.5	3"	600	12	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
7	Gasket	4.5	4"	150	5	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
8	Gasket	4.5	4"	300	12	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
9	Gasket	4.5	4"	600	12	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
10	Gasket	4.5	6"	150	5	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
11	Gasket	4.5	6"	300	5	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
12	Gasket	4.5	6"	600	10	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
13	Gasket	4.5	8"	600	5	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
14	Gasket	4.5	10"	150	5	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
15	Gasket	4.5	10"	300	5	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
16	Gasket	4.5	10"	600	10	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
17	Gasket	4.5	24"	300	5	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
18	Gasket	4.5	24"	600	5	PCS	ASME B16.20 SS316, inside ring, c.s outside ring						
19	Gasket	4.5	8"	300	1	Set	ASME B16 .20 304ss w/flexible graphite filler						
20	Gasket	4.5	8"	600	1	Set	ASME B16 .20 304ss w/flexible graphite filler						
21	Gasket	4.5	16"	300	6	PCS	ASME B16 .20 304ss w/flexible graphite filler						
22	Gasket	4.5	12"	300	3	PCS	ASME B16 .20 304ss w/flexible graphite filler						
23	Gasket	4.5	10"	300	3	PCS	ASME B16 .20 304ss w/flexible graphite filler						
24	Gasket	4.5	14"	300	3	PCS	ASME B16 .20 304ss w/flexible graphite filler						
25	Gasket	3.2	3"	600	5	PCS	ASME B16 .20 ss 304 ,with graphite filler with outside ring c.s zink plated						
26	Gasket	3.2	6"	600	5	PCS	ASME B16 .20 ss 304 ,with graphite filler with outside ring c.s zink plated						
27	Gasket	3.2	24"	600	5	PCS	ASME B16 .20 ss 304 ,with graphite filler with outside ring c.s zink plated						
28	Gasket	3.2	2"	600	25	PCS	ASME B16 .20 ss 304 ,with graphite filler with outside ring c.s zink plated						
29	Gasket	3.2	3"	600	10	PCS	ASME B16 .20 w/flexible graphite filler						
30	Gasket	3.2	4"	600	8	PCS	ASME B16 .20 w/flexible graphite filler						
31	Gasket	3.2	6"	600	12	PCS	ASME B16 .20 w/flexible graphite filler						
32	Gasket	3.2	8"	600	7	PCS	ASME B16 .20 w/flexible graphite filler						
33	Gasket	3.2	10"	600	7	PCS	ASME B16 .20 w/flexible graphite filler						
34	Gasket	3.2	12"	600	12	PCS	ASME B16 .20 w/flexible graphite filler						

Table No. 12