



चेन्नै पेट्रोलियम कॉर्पोरेशन लिमिटेड
(इंडियन ऑयल की ग्रुप कम्पनी)

Chennai Petroleum Corporation Limited
(A group company of IndianOil)

Ref: CC 0078 11

July 15, 2011

NOTICE INVITING TENDER
CORRIGENDUM NO.2

Dear Sir,

Name of the work: **Online Leak Sealing Services at CPCL, Manali**

Ref. : 1) NIT No. CC 0078 11, dated 27.06.2011
2) Corrigendum No.1 dated 06.07.2011

This has reference to the Tender document and Corrigendum No.1 issued for the above work. The tender conditions on Schedule of Rates and submission & opening of the tender are modified as detailed below:

1) Revised Price Part:

The Schedule of Rates (SOR) for this tender is completely modified under title "Revised Price Part" and enclosed herewith. You are requested to offer your competitive prices in the "Revised Price Part" only and not in the Price Part issued earlier with the tender document. Your offer in the "Revised Price Part" only will be considered for further evaluation. The "Revised Price Part" with the quoted price shall be submitted in a separate sealed envelope super scribing as "Revised Price Part for Tender No.CC 0078 11 – Do Not Open".

A copy of the Revised Price Part mentioned as "Not to be quoted" is also enclosed with this corrigendum letter. Bidder shall submit this copy with their signature and stamp along with the unpriced Techno Commercial offer as a token of their acceptance to the SOR items without deviation. The old Price Part shall be left unfilled and returned with the unpriced techno commercial offer for our records.

3) Date & Time of Submission and Opening:

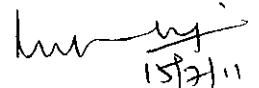
The due date and time of submission of bid is revised from 18.07.2011, 03.00 pm to **25.07.2011, 03.00 pm**. Techno Commercial Bid (Part-A) will be opened on **26.07.2011 at 10.00 am**.

All other terms and conditions stipulated in the Bid Document and Corrigendum No.1 shall remain unaltered.

Bidders shall submit this Corrigendum No.2 along with the Revised Price Bid in a separate sealed cover superscribed as "Tender No.: CC 0078 11 – Revised Price Bid" with their offer duly signed and stamped on all pages without fail before opening the Techno-Commercial Bid (Part-A).

Thanking you,

Very truly yours,


15/7/11

R.P. RAJA

SENIOR MANAGER (CONTRACTS CELL)



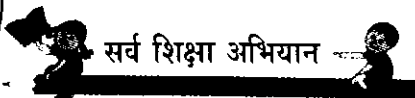
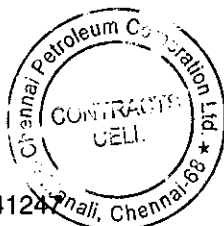
मणली, चेन्नै - 600 068.

Manali, Chennai - 600 068.

फोन / Phone : 2594 4000 to 009

फैक्स / Fax : 91-44-25941047, 25941247

वेब साइट / Website : www.cpcl.co.in



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चेन्नै पेट्रोलियम कॉर्पोरेशन लिमिटेड
(इंडियन ऑयल की ग्रुप कम्पनी)



CHENNAI PETROLEUM CORPORATION LIMITED

(A group company of IndianOil)

Manali, Chennai- 600 068.

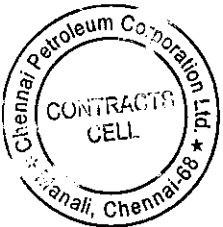
CONTRACTS CELL

**ONLINE LEAK SEALING SERVICES
AT CPCL, MANALI**

**CORRIGENDUM NO.2
FOR**

Tender Document No. CC 0078 11

**“REVISED PRICE PART – NOT TO BE QUOTED”
(TO BE SUBMITTED WITH TECHNO COMMERCIAL PART)**



Tendor No.: CC007811

Schedule of Rates

Service Required for Plant: 9910 ,CPCL-Manali Refinery

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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RFQ ITEM NO.00010 ONLINE LEAK SEALING SERVICES AT MANALI

00010

Online Leak Sealing Jobs in Manali Refinery, for 2 years (2011-2013) as per Scope of Work (Annexure - I) and Special Terms & Conditions (Annexure-II).

00020

PART-A

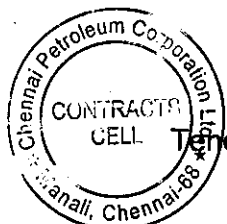
CARRYOUT ONLINE SEALING OF VALVE GLAND LEAKS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

NOTE:

- a) The rates are applicable for all valves of ratings upto 1500# irrespective of operating temperatures, with Sealant and necessary adapters & fittings.
- b) For reinjection-sealing after guarantee period, the rates shall be 40% for Size upto 4", 30% for size 6" to 14" and 20% for above 14", of applicable fresh injection rate in SOR shall be paid.
- c) For Valve size above 30" and rating upto 1500#, the rate will be paid on prorata basis using Trend formula in MS Excel with the rates as per SOR and corresponding sizes.
- d) For valve rating above 1500#, the rates are to be approved prior to execution of work.

00030

1.1) Charges to carryout Online sealing services Valve Gland Leaks for Steam, Water and Air service UPTO 900#.



Tendor No.: CC 0078 11

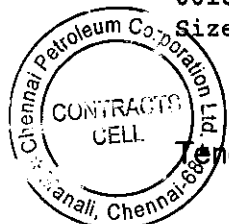
Signature of bidder with seal

Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00040	Size ½" - 1"	500.000	EA	.....	.....
00050	Size 1½" - 2"	150.000	EA	.....	.....
00060	Size 3"- 4"	75.000	EA	.....	.....
00070	Size 6" - 8"	10.000	EA	.....	.....
00080	Size 10"- 14"	10.000	EA	.....	.....
00090	Size 16"- 20"	2.000	EA	.....	.....
00100	Size 22" - 24"	2.000	EA	.....	.....
00110	Size 26" - 30"	2.000	EA	.....	.....
00120	1.2) carryout Online sealing services Valve Gland Leaks for Steam, Water and Air service - For 1500# rating.				Charges to
00130	Size ½" - 1"	4.000	EA	.....	.....
00140	Size 1½" - 2"	4.000	EA	.....	.....
00150	Size 3"- 4"	4.000	EA
00160	Size 6" - 8"	2.000	EA
00170	Size 10"- 14"	2.000	EA
00180	Size 16"- 20"	2.000	EA

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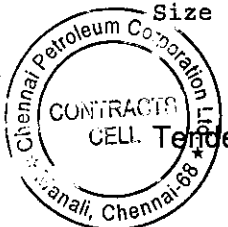
Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00190	Size 22" - 24"	2.000	EA	.....
00200	Size 26" - 30"	2.000	EA	.....
00210	1.3) carryout Online sealing services Valve Gland Leaks for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service -- upto 900#.				Charges to
00220	Size ½" - 1"	20.000	EA	.....
00230	Size 1½" - 2"	50.000	EA	.....
00240	Size 3" - 4"	50.000	EA	.....
00250	Size 6" - 8"	10.000	EA	.....
00260	Size 10" - 14"	25.000	EA	.....
00270	Size 16" - 20"	2.000	EA	.....
00280	Size 22" - 24"	2.000	EA	.....
00290	Size 26" - 30"	2.000	EA	.....
00300	1.4) carryout Online sealing services Valve Gland Leaks for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service -- For 1500# Rating.				Charges to
00310	Size ½" - 1"	4.000	EA	

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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00320	Size 1½" - 2"	4.000	EA
00330	Size 3"- 4"	4.000	EA	.....	.....
00340	Size 6" - 8"	2.000	EA	.....	.....
00350	Size 10"- 14"	2.000	EA
00360	Size 16"- 20"	2.000	EA
00370	Size 22" - 24"	2.000	EA
00380	Size 26" - 30"	2.000	EA

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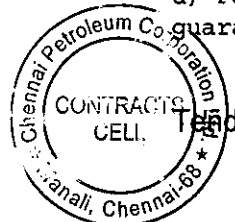
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PART-2

CARRYOUT ONLINE SEALING OF FLANGE LEAKS WITH RING CLAMPS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

Note:

- a) The rates are applicable for design, fabrication & supply of Ring clamps and arresting flange joint leaks with sealant and necessary adapters, fasteners & fittings.
- b) The rates are applicable for flange gaps upto 20mm irrespective of operating temperatures. For gaps above 20 mm and upto 30mm 50% of the applicable rate in SOR shall be paid additionally, gaps above 30 mm and upto 40mm 100% of the applicable rate in SOR shall be paid additionally and for gaps above 40 mm and upto 50mm 150% of the applicable rate in SOR shall be paid additionally.
- c) If previously supplied clamp is used, 85% of the applicable rate in SOR shall be paid.
- d) For reinjection-sealing after guarantee period, the rates shall be



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Signature of bidder with seal

Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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30% for Size upto 4", 22.5% for size from 6" to 14" and 15% for size above 14" of applicable fresh injection rate in SOR shall be paid.

e) For Flange size above 30" and pressure rating upto 1500# and gaps upto 50mm, the rate will be paid on prorata basis using Trend formula in MS Excel as per SOR and corresponding sizes.

f) For Flange rating above 1500#, and/or gaps above 50mm, the rates are to be approved prior to execution of work.

00400

2.1.1)

sealing of flange leaks with Ring Clamps for Steam, Water and Air service Upto 300#.

Charges to carryout Online

00410

Size ½" to 1"

10.000 EA

00420

Size 1 ½" to 2"

12.000 EA

00430

Size 3" to 4"

12.000 EA

00440

Size 6" to 8"

6.000 EA

00450

Size 10" to 14"

6.000 EA

00460

Size 16" to 20"

2.000 EA

00470

Size 22" to 24"

2.000 EA

00480

Size 26" to 30"

2.000 EA

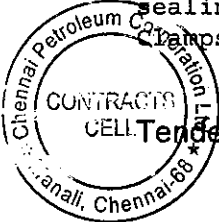
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2.1.2)

sealing of flange leaks with Ring Clamps for Steam, Water and Air service

Charges to carryout Online

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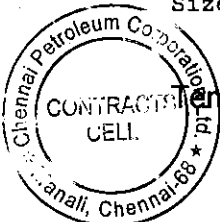
Signature of bidder with seal

Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	from 600# to 900# Rating.				
00500	Size ½" to 1"	6.000	EA	.....	.....
00510	Size 1 ½" to 2"	12.000	EA	.....	.....
00520	Size 3" to 4"	8.000	EA	.....	.....
00530	Size 6" to 8"	4.000	EA	.....	.....
00540	Size 10" to 14"	4.000	EA	.....	.....
00550	Size 16" to 20"	2.000	EA	.....	.....
00560	Size 22" to 24"	2.000	EA	.....	.....
00570	Size 26" to 30"	2.000	EA	.....	.....
00580	2.1.3) sealing of flange leaks with Ring Clamps for Steam, Water and Air service for 1500# Rating.			Charges to carryout Online	
00590	Size ½" to 1"	2.000	EA	.....	.....
00600	Size 1 ½" to 2"	2.000	EA	.....	.....
00610	Size 3" to 4"	2.000	EA	.....	.....
00620	Size 6" to 8"	2.000	EA
00630	Size 10" to 14"	2.000	EA
00640	Size 16" to 20"	2.000	EA

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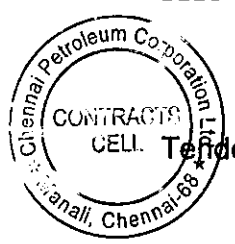
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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00650	Size 22" to 24"	2.000	EA	
00660	Size 26" to 30"	2.000	EA	.....
00670	2.2.1) Charges to carryout Online sealing of flange leaks with Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service Upto 300#.				
00680	Size ½" to 1"	10.000	EA	.....
00690	Size 1 ½" to 2"	10.000	EA	.....
00700	Size 3" to 4"	10.000	EA	.....
00710	Size 6" to 8"	6.000	EA	.....
00720	Size 10" to 14"	4.000	EA	.....
00730	Size 16" to 20"	2.000	EA	.....
00740	Size 22" to 24"	2.000	EA	.....
00750	Size 26" to 30"	2.000	EA	.....
00760	2.2.2) Charges to carryout Online sealing of flange leaks with Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service from 600# to 900#.				
00770	Size ½" to 1"	4.000	EA	

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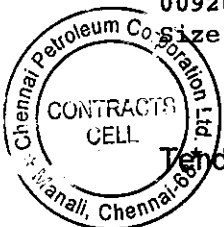
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Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00780	Size 1 ½" to 2"	4.000	EA	.....	.....
00790	Size 3" to 4"	4.000	EA	.....	.....
00800	Size 6" to 8"	4.000	EA	.....	.....
00810	Size 10" to 14"	2.000	EA	.....	.....
00820	Size 16" to 20"	2.000	EA	.....	.....
00830	Size 22" to 24"	2.000	EA	.....	.....
00840	Size 26" to 30"	2.000	EA	.....	.....
00850	2.2.3) sealing of flange leaks with Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service for 1500# Rating.			Charges to carryout Online	
00860	Size ½" to 1"	2.000	EA	.....	.....
00870	Size 1 ½" to 2"	2.000	EA	.....	.....
00880	Size 3" to 4"	2.000	EA	.....	.....
00890	Size 6" to 8"	2.000	EA	.....	.....
00900	Size 10" to 14"	2.000	EA
00910	Size 16" to 20"	2.000	EA
00920	Size 22" to 24"	2.000	EA

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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00930	Size 26" to 30"	2.000	EA	

NOT TO BE QUOTED

00940

PART-3

CARRYOUT ONLINE SEALING OF FLANGE LEAKS WITHOUT RING CLAMPS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

Note:

- a) The rates are applicable for Leak Sealing on Flanges and Valves, Orifice Flanges & Valve Bonnet with sealant, wire and necessary adapters & fittings.
- b) The rates are applicable for flange gaps upto 20mm irrespective of operating temperatures.
- b) For reinjection-sealing after guarantee period, the rates shall be 40% for Size upto 4", 30% for size 6" to 14" and 20% for above 14", of applicable fresh injection rate in SOR shall be paid.
- c) For Flange size above 30" and pressure rating upto 1500# and gaps upto 20mm, the rate will be paid on prorata basis using Trend formula in MS Excel with the rates as per SOR and corresponding sizes.
- d) For Flange rating above 1500#, the rates are to be approved prior to execution of work.

00950

3.1.1)

sealing of flange leaks without Ring Clamps for Steam, Water and Air service Upto 300#.

Charges to carryout Online

00960

Size ½" to 1"

100.000 EA

00970

Size 1 ½" to 2"

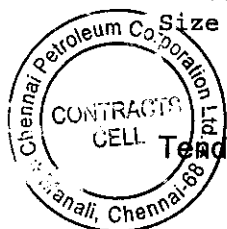
40.000 EA

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00980

Size 3" to 4"

20.000 EA



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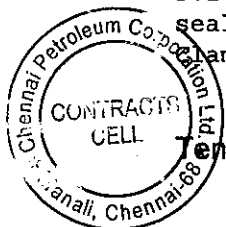
O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00990	Size 6" to 8"	12.000	EA
01000	Size 10" to 14"	10.000	EA	.....	.....
01010	Size 16" to 20"	2.000	EA	.....	.....
01020	Size 22" to 24"	2.000	EA	.....	.....
01030	Size 26" to 30"	2.000	EA	.....	.....
01040	3.1.2) sealing of flange leaks without Ring Clamps for Steam, Water and Air service from 600# to 900#.			Charges to carryout Online	
01050	Size ½" to 1"	100.000	EA	.....	.....
01060	Size 1 ½" to 2"	75.000	EA	.....	.....
01070	Size 3" to 4"	30.000	EA	.....	.....
01080	Size 6" to 8"	24.000	EA	.....	.....
01090	Size 10" to 14"	20.000	EA	.....	.....
01100	Size 16" to 20"	6.000	EA
01110	Size 22" to 24"	2.000	EA
01120	Size 26" to 30"	2.000	EA

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01130
3.1.3)
sealing of flange leaks without Ring
Clamps for Steam, Water and Air service

Charges to carryout Online



Tendor No.: CC 0078 11

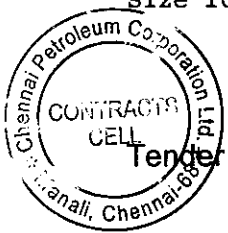
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Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
for 1500# Rating.					
01140	Size ½" to 1"	2.000	EA	.....	.....
01150	Size 1 ½" to 2"	2.000	EA	.....	.....
01160	Size 3" to 4"	2.000	EA	.....	.....
01170	Size 6" to 8"	2.000	EA	.....	.....
01180	Size 10" to 14"	2.000	EA	.....	.....
01190	Size 16" to 20"	2.000	EA	.....	.....
01200	Size 22" to 24"	2.000	EA	.....	.....
01210	Size 26" to 30"	2.000	EA	.....	.....
01220	3.2.1) sealing of flange leaks without Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service Upto 300#.			Charges to carryout Online	
01230	Size ½" to 1"	6.000	EA	.....	.....
01240	Size 1 ½" to 2"	6.000	EA
01250	Size 3" to 4"	6.000	EA
01260	Size 6" to 8"	4.000	EA
01270	Size 10" to 14"	4.000	EA

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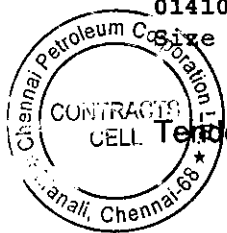
Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
01280	Size 16" to 20"	2.000	EA	.....	.....
01290	Size 22" to 24"	2.000	EA	.....	.....
01300	Size 26" to 30"	2.000	EA	.....	.....
01310	3.2.2) sealing of flange leaks without Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service from 600# to 900#.			Charges to carryout Online	
01320	Size ½" to 1"	4.000	EA	.....	.....
01330	Size 1 ½" to 2"	4.000	EA	.....	.....
01340	Size 3" to 4"	4.000	EA	.....	.....
01350	Size 6" to 8"	4.000	EA	.....	.....
01360	Size 10" to 14"	2.000	EA	.....	.....
01370	Size 16" to 20"	2.000	EA	.....	.....
01380	Size 22" to 24"	2.000	EA	.....	.....
01390	Size 26" to 30"	2.000	EA	.....	.....
01400	3.2.3) sealing of flange leaks without Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service for 1500# Rating.			Charges to carryout Online	
01410	Size ½" to 1"	2.000	EA

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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
01420	Size 1 1/2" to 2"	2.000	EA
01430	Size 3" to 4"	2.000	EA	.....	.....
01440	Size 6" to 8"	2.000	EA	.....	.....
01450	Size 10" to 14"	2.000	EA	.....	.....
01460	Size 16" to 20"	2.000	EA
01470	Size 22" to 24"	2.000	EA
01480	Size 26" to 30"	2.000	EA

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01490

PART-4

CARRYOUT ONLINE SEALING OF LEAKS IN PIPELINES, FITTINGS, VALVES, FLANGES ETC USING BOX CLAMPS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

01500

4.1.1)

Supply of Box Clamp.

Charges for Fabrication and

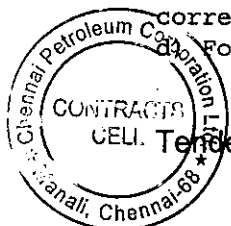
Note:

a) The rates are applicable for the design, fabrication & supply of all Box clamps with adapters, fittings & fasteners upto 9 inches long.

b) The rates are applicable for all ratings upto 1500# irrespective of operating temperatures.

c) For size above 40" and pressure rating upto 1500# and clamp length upto 9", the rate will be paid on prorata basis using Trend formula in MS Excel with the rates as per SOR and corresponding sizes.

d) For clamp length above 9 inches, the



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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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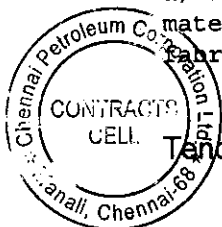
applicable rate in SOR shall be paid in pro-rata basis.
 Formula: SOR rate for corresponding size + (SOR rate*60%*(Actual length of clamp-9)/9)
 The length of the clamp will be decided in consultation with EIC depending upon job requirement.
 e) For box clamp on flanges, the outside diameter of the flange shall be considered for measurement.
 f) Rates are to be approved prior to execution of work for pressure rating above 1500#.

01510	Size ½" to 1"	100.000	EA	.....	.....
01520	Size 1 ½" to 2"	60.000	EA	.....	.....
01530	Size 3" to 4"	75.000	EA	.....	.....
01540	Size 6" to 8"	40.000	EA	.....	.....
01550	Size 10" to 14"	20.000	EA	.....	.....
01560	Size 16" to 20"	4.000	EA	.....	.....
01570	Size 22" to 26"	2.000	EA
01580	Size 28" to 32"	2.000	EA
01590	Size 34" to 40"	2.000	EA

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01600
 4.1.2)
 SPECIAL CLAMPS TO COVER VALVES, FLANGES :
 a) The scope includes procuring raw material (Mild Steel), design, fabrication, machining, supply and

FABRICATION AND SUPPLY OF



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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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fixing of special clamps with fasteners, to cover valves, flanges, etc completely, to arrest leaks.
 b) Payment will be made on actual weight of the clamp supplied. The contractors shall measure the weight of the clamp, in the presence of the Engineer-in-charge or his authorised representatives prior to using it at the site.

01610	Fabrication and Supply of Clamps (Material- Mild Steel).	1,000.000	KG	
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SECRET
NOT TO BE QUOTED

01620
 4.2) CARRYOUT SUPPLY AND INJECTING SEALANT IN CLAMPS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

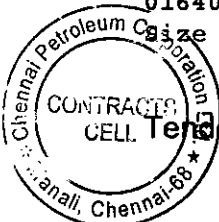
Note :

- a) The Sealant rates are per inch length of Box Clamp.
- b) The rates are applicable for all ratings upto 1500#.
- c) For size above 40" and pressure rating upto 1500#, the rate will be paid on prorata basis using Trend formula in MS Excel with the rates as per SOR and corresponding sizes.
- d) For reinjection-sealing after guarantee period, 40% will be paid for size upto 4", 30% for 6" to 14" size, and 20% for size above 14", of applicable fresh injection rate in SOR shall be paid.
- e) Rates are to be approved prior to execution of work for pressure rating above 1500#.

01630	4.2.1) FOR AIR, STEAM & WATER SERVICE:				
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01640	Size ½" to 1"	900.000	EA	
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Tendor No.: CC 0078 11

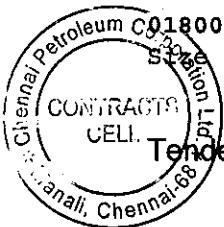
Signature of bidder with seal

Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
01650	Size 1 ½" to 2"	500.000	EA	.....	.....
01660	Size 3" to 4"	600.000	EA	.....	.....
01670	Size 6" to 8"	200.000	EA	.....	.....
01680	Size 10" to 14"	150.000	EA	.....	.....
01690	Size 16" to 20"	50.000	EA	.....	.....
01700	Size 22" to 26"	50.000	EA	.....	.....
01710	Size 28" to 32"	50.000	EA	.....	.....
01720	Size 34" to 40"	50.000	EA	.....	.....
01730	4.2.2) GASES, CHEMICALS AND SOLVENTS:				
				FOR HYDROCARBON LIQUIDS &	
01740	Size ½" to 1"	100.000	EA	.....	.....
01750	Size 1 ½" to 2"	100.000	EA	.....	.....
01760	Size 3" to 4"	100.000	EA	.....	.....
01770	Size 6" to 8"	150.000	EA	.....	.....
01780	Size 10" to 14"	75.000	EA
01790	Size 16" to 20"	50.000	EA
01800	Size 22" to 26"	50.000	EA

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**STRICTLY
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Tender No.: CC 0078 11

Signature of bidder with seal

Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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01810	Size 28" to 32"	50.000	EA
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01820	Size 34" to 40"	50.000	EA
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01830	4.2.3) clamps to cover Valves, Flanges, etc for arresting leaks:				Injection of sealant in special
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a) The scope includes supplying and injecting suitable leak sealing compound in special clamps supplied and fitted to cover valves, flanges, etc completely, to arrest leaks.

b) Payment will be made for the actual quantity on weight basis (per kg) of sealant consumed duly certified by the EIC.

01840	Charges for Injection of sealant.	150.000	KG
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01850
PART-5
ONLINE SEALING OF HEAT EXCHANGER FLANGE LEAKS:

NOTE:

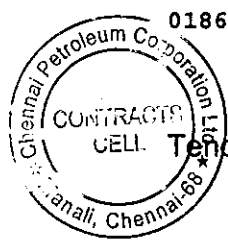
- a) The rates are applicable for online leak sealing of flanges of Heat Exchangers inclusive of sealant with ring clamps, wires and necessary fittings.
- b) The rates are applicable for flange gap upto 10 mm for all outer diameters. For flange gap more than 10 mm, the applicable rate in SOR shall be paid on pro-rata basis.
- c) The outer diameter of the flange in millimetre shall be taken for unit of measurement (UOM).
- d) For reinjection-sealing after guarantee period, 15% of applicable fresh injection rate in SOR shall be paid.

01860		35,000.000	MM
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NOT TO BE QUOTED

SECRET
NOT TO BE QUOTED



O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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5.1) Carryout online sealing of Heat exchanger Flange leaks - Water and Steam service (Charges per MM Dia. of Exchanger Flange).

01870 10,000.000 MM

5.2) Carryout online sealing of Heat exchanger Flange leaks - Hydrocarbon liquids & Gases, Chemicals and Solvents (Charges per MM Dia. of Exchanger Flange).

TOTAL

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NOT TO BE QUOTED

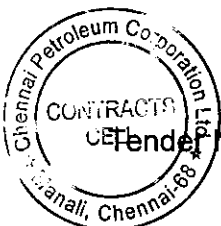
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In Figures: Rs.....

In Words: Rs.....

.....only)

Signature of Tenderer



Tender No.: CC 0078 11

Signature of bidder with seal

चेन्नै पेट्रोलियम कॉर्पोरेशन लिमिटेड
(इंडियन ऑयल की ग्रुप कम्पनी)



CHENNAI PETROLEUM CORPORATION LIMITED

(A group company of IndianOil)

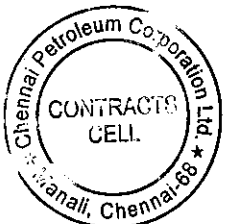
Manali, Chennai- 600 068.

CONTRACTS CELL

**ONLINE LEAK SEALING SERVICES
AT CPCL, MANALI**

**CORRIGENDUM NO.2
FOR
Tender Document No. CC 0078 11**

**“REVISED PRICE PART”
(TO BE SUBMITTED WITH PRICE IN A SEPARATE SEALED
ENVELOPE)**



Schedule of Rates

Service Required for Plant: 9910 ,CPCL-Manali Refinery

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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RFQ ITEM NO.00010 ONLINE LEAK SEALING SERVICES AT MANALI**00010**

Online Leak Sealing Jobs in Manali Refinery, for 2 years (2011-2013) as per Scope of Work (Annexure - I) and Special Terms & Conditions (Annexure-II).

00020**PART-A**

CARRYOUT ONLINE SEALING OF VALVE GLAND LEAKS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

NOTE:

a) The rates are applicable for all valves of ratings upto 1500# irrespective of operating temperatures, with Sealant and necessary adapters & fittings.

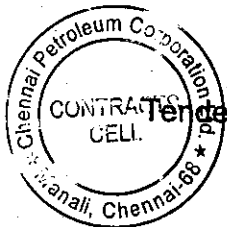
b) For reinjection-sealing after guarantee period, the rates shall be 40% for Size upto 4", 30% for size 6" to 14" and 20% for above 14", of applicable fresh injection rate in SOR shall be paid.

c) For Valve size above 30" and rating upto 1500#, the rate will be paid on prorata basis using Trend formula in MS Excel with the rates as per SOR and corresponding sizes.

d) For valve rating above 1500#, the rates are to be approved prior to execution of work.

00030

1.1) Charges to carryout Online sealing services Valve Gland Leaks for Steam, Water and Air service UPTO 900#.



Tender No.: CC 0078 11

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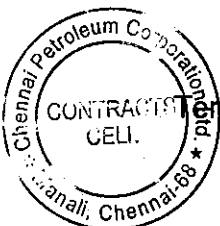
Tender No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00040	Size ½" - 1"	500.000	EA	.....	.....
00050	Size 1½" - 2"	150.000	EA	.....	.....
00060	Size 3" - 4"	75.000	EA	.....	.....
00070	Size 6" - 8"	10.000	EA	.....	.....
00080	Size 10" - 14"	10.000	EA	.....	.....
00090	Size 16" - 20"	2.000	EA	.....	.....
00100	Size 22" - 24"	2.000	EA	.....	.....
00110	Size 26" - 30"	2.000	EA	.....	.....
00120	1.2) carryout Online sealing services Valve Gland Leaks for Steam, Water and Air service - For 1500# rating.				Charges to
00130	Size ½" - 1"	4.000	EA	.....	.....
00140	Size 1½" - 2"	4.000	EA	.....	.....
00150	Size 3" - 4"	4.000	EA
00160	Size 6" - 8"	2.000	EA
00170	Size 10" - 14"	2.000	EA
00180	Size 16" - 20"	2.000	EA

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Tender No.: CC 0078 11

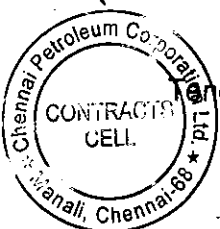


Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00190	Size 22" - 24"	2.000	EA	.....	.....
00200	Size 26" - 30"	2.000	EA	.....	.....
00210	1.3) carryout Online sealing services Valve Gland Leaks for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service -- upto 900#.				Charges to
00220	Size ½" - 1"	20.000	EA	.....	.....
00230	Size 1½" - 2"	50.000	EA	.....	.....
00240	Size 3"- 4"	50.000	EA	.....	.....
00250	Size 6" - 8"	10.000	EA	.....	.....
00260	Size 10"- 14"	25.000	EA	.....	.....
00270	Size 16"- 20"	2.000	EA	.....	.....
00280	Size 22" - 24"	2.000	EA	.....	.....
00290	Size 26" - 30"	2.000	EA	.....	.....
00300	1.4) carryout Online sealing services Valve Gland Leaks for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service -- For 1500# Rating.				Charges to
00310	Size ½" - 1"	4.000	EA	.....	.....

Tendor No.: CC 0078 11

Signature of bidder with seal



Tender No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00320	Size 1½" - 2"	4.000	EA	.....	.....
00330	Size 3" - 4"	4.000	EA	.....	.....
00340	Size 6" - 8"	2.000	EA	.....	.....
00350	Size 10" - 14"	2.000	EA	.....	.....
00360	Size 16" - 20"	2.000	EA	.....	.....
00370	Size 22" - 24"	2.000	EA	.....	.....
00380	Size 26" - 30"	2.000	EA	.....	.....

00390

PART-2

CARRYOUT ONLINE SEALING OF FLANGE LEAKS WITH RING CLAMPS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

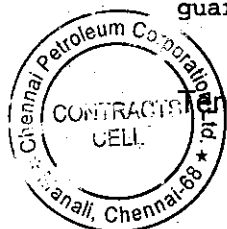
Note:

- The rates are applicable for design, fabrication & supply of Ring clamps and arresting flange joint leaks with sealant and necessary adapters, fasteners & fittings.
- The rates are applicable for flange gaps upto 20mm irrespective of operating temperatures. For gaps above 20 mm and upto 30mm 50% of the applicable rate in SOR shall be paid additionally, gaps above 30 mm and upto 40mm 100% of the applicable rate in SOR shall be paid additionally and for gaps above 40 mm and upto 50mm 150% of the applicable rate in SOR shall be paid additionally.
- If previously supplied clamp is used, 85% of the applicable rate in SOR shall be paid.
- For reinjection-sealing after guarantee period, the rates shall be

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Tender No.: CC 0078 11

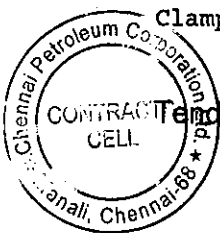
Signature of bidder with seal



O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	30% for Size upto 4", 22.5% for size from 6" to 14" and 15% for size above 14" of applicable fresh injection rate in SOR shall be paid. e) For Flange size above 30" and pressure rating upto 1500# and gaps upto 50mm, the rate will be paid on prorata basis using Trend formula in MS Excel as per SOR and corresponding sizes. f) For Flange rating above 1500#, and/or gaps above 50mm, the rates are to be approved prior to execution of work.				
00400	2.1.1) sealing of flange leaks with Ring Clamps for Steam, Water and Air service Upto 300#.				Charges to carryout Online
00410	Size ½" to 1"	10.000	EA	.....	.....
00420	Size 1 ½" to 2"	12.000	EA	.....	.....
00430	Size 3" to 4"	12.000	EA	.....	.....
00440	Size 6" to 8"	6.000	EA	.....	.....
00450	Size 10" to 14"	6.000	EA	.....	.....
00460	Size 16" to 20"	2.000	EA	.....	.....
00470	Size 22" to 24"	2.000	EA	.....	.....
00480	Size 26" to 30"	2.000	EA	.....	.....

00490
2.1.2)
sealing of flange leaks with Ring Clamps for Steam, Water and Air service

Charges to carryout Online



Tendor No.: CC 0078 11

Signature of bidder with seal

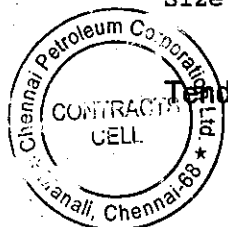
Tender No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	from 600# to 900# Rating.				
00500	Size ½" to 1"	6.000	EA	.....	.....
00510	Size 1 ½" to 2"	12.000	EA	.....	.....
00520	Size 3" to 4"	8.000	EA	.....	.....
00530	Size 6" to 8"	4.000	EA	.....	.....
00540	Size 10" to 14"	4.000	EA	.....	.....
00550	Size 16" to 20"	2.000	EA	.....	.....
00560	Size 22" to 24"	2.000	EA	.....	.....
00570	Size 26" to 30"	2.000	EA	.....	.....
00580	2.1.3) sealing of flange leaks with Ring Clamps for Steam, Water and Air service for 1500# Rating.			Charges to carryout Online	
00590	Size ½" to 1"	2.000	EA	.....	.....
00600	Size 1 ½" to 2"	2.000	EA	.....	.....
00610	Size 3" to 4"	2.000	EA	.....	.....
00620	Size 6" to 8"	2.000	EA
00630	Size 10" to 14"	2.000	EA
00640	Size 16" to 20"	2.000	EA

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Tender No.: CC 0078 11

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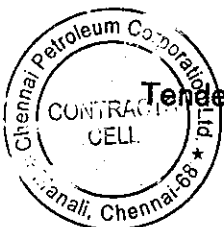
Tender No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00650	Size 22" to 24"	2.000	EA	.....	.....
00660	Size 26" to 30"	2.000	EA	.....	.....
00670	2.2.1) Charges to carryout Online sealing of flange leaks with Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service Upto 300#.				
00680	Size ½" to 1"	10.000	EA	.....	.....
00690	Size 1 ½" to 2"	10.000	EA	.....	.....
00700	Size 3" to 4"	10.000	EA	.....	.....
00710	Size 6" to 8"	6.000	EA	.....	.....
00720	Size 10" to 14"	4.000	EA	.....	.....
00730	Size 16" to 20"	2.000	EA	.....	.....
00740	Size 22" to 24"	2.000	EA	.....	.....
00750	Size 26" to 30"	2.000	EA	.....	.....
00760	2.2.2) Charges to carryout Online sealing of flange leaks with Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service from 600# to 900#.				
00770	Size ½" to 1"	4.000	EA

Tender No.: CC 0078 11

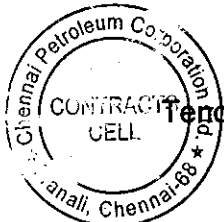
page 9

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Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00780	Size 1 1/2" to 2"	4.000	EA	.....	.....
00790	Size 3" to 4"	4.000	EA	.....	.....
00800	Size 6" to 8"	4.000	EA	.....	.....
00810	Size 10" to 14"	2.000	EA	.....	.....
00820	Size 16" to 20"	2.000	EA	.....	.....
00830	Size 22" to 24"	2.000	EA	.....	.....
00840	Size 26" to 30"	2.000	EA	.....	.....
00850	2.2.3) sealing of flange leaks with Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service for 1500# Rating.			Charges to carryout Online	
00860	Size 1/2" to 1"	2.000	EA	.....	.....
00870	Size 1 1/2" to 2"	2.000	EA	.....	.....
00880	Size 3" to 4"	2.000	EA	.....	.....
00890	Size 6" to 8"	2.000	EA	.....	.....
00900	Size 10" to 14"	2.000	EA
00910	Size 16" to 20"	2.000	EA
00920	Size 22" to 24"	2.000	EA



Tender No.: CC 0078 11

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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00930	Size 26" to 30"	2.000	EA

00940

PART-3

CARRYOUT ONLINE SEALING OF FLANGE LEAKS WITHOUT RING CLAMPS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

Note:

- a) The rates are applicable for Leak Sealing on Flanges and Valves, Orifice Flanges & Valve Bonnet with sealant, wire and necessary adapters & fittings.
- b) The rates are applicable for flange gaps upto 20mm irrespective of operating temperatures.
- b) For reinjection-sealing after guarantee period, the rates shall be 40% for Size upto 4", 30% for size 6" to 14" and 20% for above 14", of applicable fresh injection rate in SOR shall be paid.
- c) For Flange size above 30" and pressure rating upto 1500# and gaps upto 20mm, the rate will be paid on prorata basis using Trend formula in MS Excel with the rates as per SOR and corresponding sizes.
- d) For Flange rating above 1500#, the rates are to be approved prior to execution of work.

00950

3.1.1)

sealing of flange leaks without Ring Clamps for Steam, Water and Air service Upto 300#.

Charges to carryout Online

00960

Size ½" to 1"

100.000 EA

00970

Size 1 ½" to 2"

40.000 EA

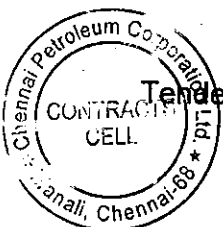
00980

Size 3" to 4"

20.000 EA

Tender No.: CC 0078 11

Signature of bidder with seal

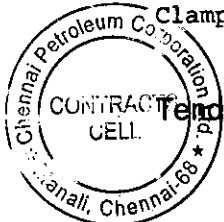


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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00990	Size 6" to 8"	12.000	EA
01000	Size 10" to 14"	10.000	EA	.....	.....
01010	Size 16" to 20"	2.000	EA	.....	.....
01020	Size 22" to 24"	2.000	EA	.....	.....
01030	Size 26" to 30"	2.000	EA	.....	.....
01040	3.1.2) sealing of flange leaks without Ring Clamps for Steam, Water and Air service from 600# to 900#.			Charges to carryout Online	
01050	Size ½" to 1"	100.000	EA	.....	.....
01060	Size 1 ½" to 2"	75.000	EA	.....	.....
01070	Size 3" to 4"	30.000	EA	.....	.....
01080	Size 6" to 8"	24.000	EA	.....	.....
01090	Size 10" to 14"	20.000	EA	.....	.....
01100	Size 16" to 20"	6.000	EA	.....	.....
01110	Size 22" to 24"	2.000	EA	.....	.....
01120	Size 26" to 30"	2.000	EA	.....	.....

01130
3.1.3)
sealing of flange leaks without Ring
Clamps for Steam, Water and Air service

Charges to carryout Online

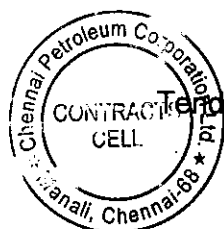


Tender No.: CC 0078 11

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Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	for 1500# Rating.				
01140	Size ½" to 1"	2.000	EA	.....	.....
01150	Size 1 ½" to 2"	2.000	EA	.....	.....
01160	Size 3" to 4"	2.000	EA	.....	.....
01170	Size 6" to 8"	2.000	EA	.....	.....
01180	Size 10" to 14"	2.000	EA	.....	.....
01190	Size 16" to 20"	2.000	EA	.....	.....
01200	Size 22" to 24"	2.000	EA	.....	.....
01210	Size 26" to 30"	2.000	EA	.....	.....
01220	3.2.1) sealing of flange leaks without Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service Upto 300#.			Charges to carryout Online	
01230	Size ½" to 1"	6.000	EA	.....	.....
01240	Size 1 ½" to 2"	6.000	EA	.....	.....
01250	Size 3" to 4"	6.000	EA
01260	Size 6" to 8"	4.000	EA
01270	Size 10" to 14"	4.000	EA



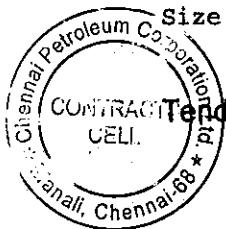
Tender No.: CC 0078 11

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Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
01280	Size 16" to 20"	2.000	EA	.....	.....
01290	Size 22" to 24"	2.000	EA	.....	.....
01300	Size 26" to 30"	2.000	EA	.....	.....
01310	3.2.2) sealing of flange leaks without Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service from 600# to 900#.			Charges to carryout Online	
01320	Size ½" to 1"	4.000	EA	.....	.....
01330	Size 1 ½" to 2"	4.000	EA	.....	.....
01340	Size 3" to 4"	4.000	EA	.....	.....
01350	Size 6" to 8"	4.000	EA	.....	.....
01360	Size 10" to 14"	2.000	EA	.....	.....
01370	Size 16" to 20"	2.000	EA	.....	.....
01380	Size 22" to 24"	2.000	EA	.....	.....
01390	Size 26" to 30"	2.000	EA	.....	.....
01400	3.2.3) sealing of flange leaks without Ring Clamps for Hydrocarbon Liquids & Gases, Chemicals and Solvents Service for 1500# Rating.			Charges to carryout Online	
01410	Size ½" to 1"	2.000	EA	.....	.....



Tender No.: CC 0078 11

Signature of bidder with seal

Tender No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
01420	Size 1 1/2" to 2"	2.000	EA	.....	.....
01430	Size 3" to 4"	2.000	EA	.....	.....
01440	Size 6" to 8"	2.000	EA	.....	.....
01450	Size 10" to 14"	2.000	EA	.....	.....
01460	Size 16" to 20"	2.000	EA	.....	.....
01470	Size 22" to 24"	2.000	EA	.....	.....
01480	Size 26" to 30"	2.000	EA	.....	.....

01490

PART-4

CARRYOUT ONLINE SEALING OF LEAKS IN PIPELINES, FITTINGS, VALVES, FLANGES ETC USING BOX CLAMPS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

01500

4.1.1)

Supply of Box Clamp.

Charges for Fabrication and

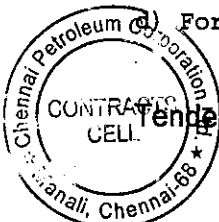
Note:

a) The rates are applicable for the design, fabrication & supply of all Box clamps with adapters, fittings & fasteners upto 9 inches long.

b) The rates are applicable for all ratings upto 1500# irrespective of operating temperatures.

c) For size above 40" and pressure rating upto 1500# and clamp length upto 9", the rate will be paid on prorata basis using Trend formula in MS Excel with the rates as per SOR and corresponding sizes.

d) For clamp length above 9 inches, the



Tender No.: CC 0078 11

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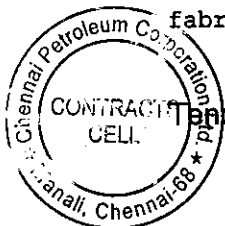
O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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applicable rate in SOR shall be paid in pro-rata basis.
 Formula: SOR rate for corresponding size + (SOR rate*60%*(Actual length of clamp-9)/9)
 The length of the clamp will be decided in consultation with EIC depending upon job requirement.
 e) For box clamp on flanges, the outside diameter of the flange shall be considered for measurement.
 f) Rates are to be approved prior to execution of work for pressure rating above 1500#.

01510	Size ½" to 1"	100.000	EA	.....	.....
01520	Size 1 ½" to 2"	60.000	EA	.....	.....
01530	Size 3" to 4"	75.000	EA	.....	.....
01540	Size 6" to 8"	40.000	EA	.....	.....
01550	Size 10" to 14"	20.000	EA	.....	.....
01560	Size 16" to 20"	4.000	EA	.....	.....
01570	Size 22" to 26"	2.000	EA	.....	.....
01580	Size 28" to 32"	2.000	EA	.....	.....
01590	Size 34" to 40"	2.000	EA	.....	.....

01600
 4.1.2)
 SPECIAL CLAMPS TO COVER VALVES, FLANGES :
 a) The scope includes procuring raw material (Mild Steel), design, fabrication, machining, supply and

FABRICATION AND SUPPLY OF



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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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fixing of special clamps with fasteners, to cover valves, flanges, etc completely, to arrest leaks.
 b) Payment will be made on actual weight of the clamp supplied. The contractors shall measure the weight of the clamp, in the presence of the Engineer-in-charge or his authorised representatives prior to using it at the site.

01610	Fabrication and Supply of Clamps (Material- Mild Steel).	1,000.000	KG
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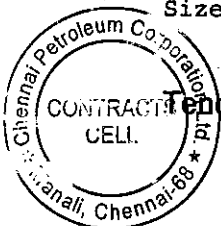
01620
 4.2) CARRYOUT SUPPLY AND INJECTING SEALANT IN CLAMPS AS PER SCOPE OF WORK AND E.I.C (ENGINEER-IN-CHARGE) INSTRUCTIONS:

Note:

- a) The Sealant rates are per inch length of Box Clamp.
- b) The rates are applicable for all ratings upto 1500#.
- c) For size above 40" and pressure rating upto 1500#, the rate will be paid on prorata basis using Trend formula in MS Excel with the rates as per SOR and corresponding sizes.
- d) For reinjection-sealing after guarantee period, 40% will be paid for size upto 4", 30% for 6" to 14" size, and 20% for size above 14", of applicable fresh injection rate in SOR shall be paid.
- e) Rates are to be approved prior to execution of work for pressure rating above 1500#.

01630
 4.2.1) FOR AIR, STEAM & WATER SERVICE:

01640	Size ½" to 1"	900.000	EA
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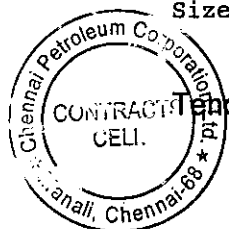
Tendor No.: CC007811

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
01650	Size 1 ½" to 2"	500.000	EA	.....	.....
01660	Size 3" to 4"	600.000	EA	.....	.....
01670	Size 6" to 8"	200.000	EA	.....	.....
01680	Size 10" to 14"	150.000	EA	.....	.....
01690	Size 16" to 20"	50.000	EA	.....	.....
01700	Size 22" to 26"	50.000	EA	.....	.....
01710	Size 28" to 32"	50.000	EA	.....	.....
01720	Size 34" to 40"	50.000	EA	.....	.....
01730	4.2.2) GASES, CHEMICALS AND SOLVENTS:				
				FOR HYDROCARBON LIQUIDS &	
01740	Size ½" to 1"	100.000	EA	.....	.....
01750	Size 1 ½" to 2"	100.000	EA	.....	.....
01760	Size 3" to 4"	100.000	EA	.....	.....
01770	Size 6" to 8"	150.000	EA	.....	.....
01780	Size 10" to 14"	75.000	EA
01790	Size 16" to 20"	50.000	EA
01800	Size 22" to 26"	50.000	EA

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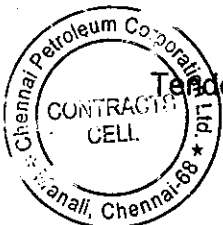


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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
01810	Size 28" to 32"	50.000	EA
01820	Size 34" to 40"	50.000	EA	.....	.....
01830	4.2.3) clamps to cover Valves, Flanges, etc for arresting leaks: a) injecting suitable leak sealing compound in special clamps supplied and fitted to cover valves, flanges, etc completely, to arrest leaks. b) Payment will be made for the actual quantity on weight basis (per kg) of sealant consumed duly certified by the EIC.			Injection of sealant in special The scope includes supplying and	
01840	Charges for Injection of sealant.	150.000	KG	.....	.....
01850	<u>PART-5</u> ONLINE SEALING OF HEAT EXCHANGER FLANGE LEAKS: <u>NOTE:</u> a) The rates are applicable for online leak sealing of flanges of Heat Exchangers inclusive of sealant with ring clamps, wires and necessary fittings. b) The rates are applicable for flange gap upto 10 mm for all outer diameters. For flange gap more than 10 mm, the applicable rate in SOR shall be paid on pro-rata basis. c) The outer diameter of the flange in millimetre shall be taken for unit of measurement (UOM). d) For reinjection-sealing after guarantee period, 15% of applicable fresh injection rate in SOR shall be paid.				
01860		35,000.000	MM

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Signature of bidder with seal



O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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5.1) Carryout online sealing of Heat exchanger Flange leaks - Water and Steam service (Charges per MM Dia. of Exchanger Flange).

01870 10,000.000 MM

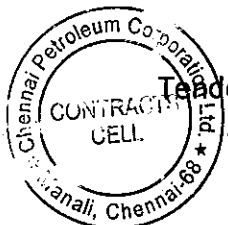
5.2) Carryout online sealing of Heat exchanger Flange leaks - Hydrocarbon liquids & Gases, Chemicals and Solvents (Charges per MM Dia. of Exchanger Flange).

TOTAL

In Figures: Rs.....

In Words: Rs.....only)

Signature of Tenderer



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Signature of bidder with seal