

22 April 2011



## Request for information

### ***Prefabrication & installation of piping at site for Hydrocracker plant in Haifa Refinery***

ORL are considering to employ a foreign contractor for fabrication and installation of piping for a new Hydrocracker plant which is now under construction in Haifa Refinery.

### ***Definitions***

**Company:** Oil Refineries Limited (ORL) .A Company incorporated under the laws of Israel located in Haifa bay.

**Project:** A new hydrocracker plant now being under construction at Haifa oil refinery .

**Contractor:** A Contractor to be selected by the company to execute piping work for the project

### ***Scope of work***

The volume of the piping welding work is estimated as 200,000 inch-diameter in the time frame mentioned above.

- The piping diameter range of the piping work can be from 1" to 24 " and will include all activities such as fit-up, welding, pipe supports, pressure test ,etc.
- The piping systems are designed to handle hydrocarbon liquids and gases, hydrogen, hydrogen sulfide, amine, steam, water, compressed air and nitrogen. The pressure levels are from full vacuum up to 60 Barg, and design temperatures from ambient up to 450°C.
- The work will include all type of materials such as C.S, Low Alloy and Stainless Steel.
- The required workforce includes the contractor's experienced management team, certified welders and professional NDT personnel, pipe fitters and manual workers, as well as all the necessary facilities and equipment required to do the work such as but not limited to, welding machines, welding equipment, tools, vehicles, NDT equipment as requires per ASME and API codes, etc.

***Additional information that should be considered:***

- All piping materials will be supplied by the company at from its on-site warehouse to the chosen contractor. The contractor will be responsible for the delivery of materials from the warehouse to site. The contractor will be held completely responsible for materials management and balance for each pipeline and for the overall project.
  - The company will allocate an appropriate area with all necessary utilities for the contractor's teams. This area will include also an area for piping prefabrication activities.
  - The company will supply all cranes and scaffolding for the on site work.
  - The company will supply all isometric drawings needed for the execution of the work. The drawings will be issued before beginning and during the work.
  - The scope of work includes handling of all final tie-ins of the prefabricated piping on-site. These activities will include final NDT, Pre-heat, and Post Weld Heat Treatment as required by pipe class for testing of the lines, as well as line flushing and in-line instrumentation installation in preparation for start-up.
  - Prices can be quoted in EURO/kg or by EURO/inch-diameter. Daily manhours/equipment will be a part of the quantities list.
  - The contactor shall use only ASME IX qualified welders.
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- It is noted that other piping contractors will be working in the same area in which the piping is being installed and that all work must be coordinated in order to allow all work to be carry out in parallel.
  - A detailed Request for Quotations will be issued to potential contractors
  - An initial questionnaire is attached for the preliminary acquaintanceship with the contractors.

## CONTRACTOR QUESTIONNAIRE

### Piping Pre-fabrication and Installation

1.0 Executions:

1.1 Do you have shop fabrication facilities? Please specify:

a) Location of fabrication shop .....

b) Size (area) of fabrication shop .....

c) Lifting capacity at shop .....

d) Average capacity tones/month:

	< 2"	3"-12"	14"-24"	26"-48"	>48"
Carbon Steel	.....	.....	.....	.....	.....
Stainless Steel	.....	.....	.....	.....	.....
Alloy Steel	.....	.....	.....	.....	.....
.....(Other)	.....	.....	.....	.....	.....
.....(Other)	.....	.....	.....	.....	.....

1.2 Do you have experience in field fabrication?

Typical capacity tones/month:

	< 2"	3"-12"	14"-24"	26"-48"	>48"
Carbon Steel	.....	.....	.....	.....	.....
Stainless Steel	.....	.....	.....	.....	.....
Alloy Steel	.....	.....	.....	.....	.....
.....(Other)	.....	.....	.....	.....	.....
.....(Other)	.....	.....	.....	.....	.....

1.3 Do you have experience in field installation?

Typical capacity tones/month:

	< 2"	3"-12"	14"-24"	26"-48"	>48"
Carbon Steel	.....	.....	.....	.....	.....
Stainless Steel	.....	.....	.....	.....	.....

3 Coating and wrapping	.....	.....	.....
4 Radiography	.....	.....	.....
5 PMI	.....	.....	.....
6 PWHT	.....	.....	.....
7 UT	.....	.....	.....
8 MT	.....	.....	.....
9 WFMT	.....	.....	.....
10 PT	.....	.....	.....
11 TOFD	.....	.....	.....
12 Pipe supports	.....	.....	.....
13 Structural Jobs	.....	.....	.....
14 Other Specify	.....	.....	.....

1.5 Please provide your average productivity per day (9 hours) for the following:

- a) GTAW welder .....
- b) SMAW welder .....
- c) Pipe fitter .....

1.6 Do you need to supplement your own work force with:

YES NO

- a) Supervisors .....
- b) Welding foremen .....
- c) Welders GTAW/SMAW .....
- d) Others, please specify .....

1.7 What materials are your companies most interested in fabricating? Why?

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1.8 What sizes of pipe is your company most interested in fabricating? Why?

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2.0 Quality Assurance/Control:

YES NO

- 2.1 Do you establish an independent inspection group at site? .....
- 2.2 Can you maintain PQR for WPS and welders? .....
- 2.3 Can you prepare "As-Built" drawings at site? .....

3.0 Material Management:

YES NO

3.1 Do you have a material Management system?  
(If yes, please explain, on a separate sheet, your Material Management system.)

3.2 Please indicate if you have a Material Management system.

4.0 Projects

4.1 Please add a list of your finished works and projects in last five years

- a).....
- b).....
- c).....
- d).....
- e).....

4.2 Piping spools production for each project in (tones):

	< 2"	3"-12"	14"-24"	26"-48"	>48"
Carbon Steel	.....	.....	.....	.....	.....
Stainless Steel	.....	.....	.....	.....	.....
Alloy Steel	.....	.....	.....	.....	.....
.....(Other)	.....	.....	.....	.....	.....
.....(Other)	.....	.....	.....	.....	.....

Notes:

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Tender signature and address: .....

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