
	<b>SIRJAN JAHAN STEEL COMPANY</b> <i>Direct Reduction Plant I &amp; II</i>		<b>TECHNICAL OFFICE</b>
	Document No:	Rev.	
<b>DOCUMENT TITLE</b>	<b>SJSCO No.:</b>	<b>0</b>	DATE: May-2025
INQUIRY DOCUMENT FOR GAS ANALYZER CAPSULES	<b>Request No.:</b>		Page: 1 of 7


# Inquiry Document for Gas Analyzer Capsules

## Direct Reduction Plant I & II

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## 1. Scope

This Inquiry covers the minimum requirements and provides guidance for the selection and specification of Gas Analyzers cylinders which will be used for span calibration of process on-line analyzers to be used in DRI I & II plants of Sirjan Jahan steel company.

## 2. Documentation Requirement

Documents with Bid Proposal:

- Each copy of the bid documents shall include a complete set of manufacturer specifications, technical literature and illustrations describing the equipment proposed.
- The bidder shall clearly point out items which cannot be supplied in accordance with this specification in a separate part in his documents under “deviation list” title.


Documents to be provided after Contract Award:

- The following documents shall be provided by supply contractor two months before Factory Acceptance Test.
- Technical literature pertaining to each item in 1 copy.

List of documents should be submitted by vendor:

Item	Description	with Bid	First Issue		
		For Evaluation	For Approval/QTY	For Information/QTY	Final Document/QTY
1	Relevant brochures and drawings	S & P/1	S	S	S & P/1
2	Deviation list (if any)	S & P/1	S	S	S & P/1
3	Technical characteristic	S & P/1	S	S	S & P/1
4	Test / Inspection reports and certificates	S & P/1	S	S	S & P/1
5	Final Book	-	-	-	S & P/1


Note: S=Software (MEANS COMPUTER SOURCE FILE (reproducible file such as word, excel, AutoCAD etc.) ALSO, TO BE SUBMITTED BY VENDOR, P=Paper Copy

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### 3. Environmental Conditions

The site is located in the vicinity of Sirjan city, 50 kilometers of Sirjan city center, IRAN

- Longitude 55° 22' 47" East
- Latitude 29° 8' North
- Elevation from sea level 1750 m
- Atmospheric Temperature
  - Maximum Recorded +40°C (for design 45°C considered)
  - Minimum Recorded -12°C
  - Average Recorded +15.9°C
- Atmospheric Pressure 814 mbar
- Relative Humidity Max 70%
  
- dry bulb temperature 25 °C
- Wet bulb temperature: 21 °C\*
- Dew Point Temperature 19 °C
- Precipitation
  - Annual rainfall Av 160 mm
  - Maximum monthly rainfall 260 mm
  - Maximum daily rainfall 58 mm
- Wind Condition
  - Prevailing Wind Direction SE to NW
  - Wind speed 4.8 m
  - Vector wind direction SW to NE
  - Wind speed 0.3m/s
  - Fastest wind direction NE to SW
  - Max wind speed 25 m/s

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## 4. Tests and Inspection

- Final Acceptance Test:

Visual inspection shall consist of visually verifying that all features of the quotation or purchase order are included. With the factory check sheet as a guide, all hardware shall be visually checked for defects and misalignment and their proper locations.

Inspection method shall be in accordance with the Supplier's standard. At final inspection the Supplier shall furnish the whole documentation concerning verifications, checks and test defined in the attached inspection testing plan (ITP).

## 5. Packing and Delivery

Packing shall be such as to protect the equipment from moisture and physical damages due to long distance transportation and storage of package in open area and under the adverse climatic conditions of the site. Supplier shall submit the "procedure and specification of packing" to the purchaser for approval. Supplier shall furnish the purchaser with "packing and delivery time table" which includes duration of activities involved in packing and delivery.

A copy of packing list and supply list shall accompany each package.

The documents necessary for final inspection and release of packing will include, but not be limited to the following:


- Reports on tests performed
- Manufacturer's test certificate
- Supply list of equipment including all the auxiliaries and spare parts

## 6. Guarantees

The supplier shall guarantee that the complete package is of first-class material and workmanship.

The supplier shall replace any damaged equipment resulting from poor workmanship or low-quality material.

The supplier shall also replace any equipment or component failed under normal operation for a

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minimum of **12 months after initial start-up or 18 months from the date of delivery** whichever coming soon.

VENDOR shall be primarily responsible toward the purchaser for all aspect of the work performance by VENDOR and his sub-vendors covered by assigned order. This shall include but not limited to responsibility for management and design development, quality, cost and schedule performance.


## 7. Notes

- Balance Gas shall Be N2.
- Laboratory Certification shall be provided for Each Cylinder.
- Each Cylinder shall be provided with Related Name Plate (S.S tag).
- Two-stage, Dual Gauge pressure regulator with inlet filter shall be considered for each capsule.
- All cylinders shall be new and seamless.
- In case of existing any deviation on the data, vendor shall declare it and its responsibility is by him.
- Accuracy and Pressure Tolerance for each item shall be indicated in the vendor offer.
- Regulator main spec. like Body material, ... shall be indicated in the offer.
- Origin, manufacturer name of capsules and regulators shall be indicated in the offer.

## 8. Calibration Capsules Technical Specification

Row	Item	Tag No.	Gas	Con.	Specification	Vol. (Liter)	Cylinder Pressure	Valve	Material	QTY
1	Gas Cylinder	AIT-XA35	CO	50%	Gas + Cylinder, N2 Balance Filled in 50-liter seamless Aluminum Tolerance: $\pm 5\%$ Accuracy: $\pm 3\%$	50	150 bars $\pm 5\%$	BS3/DIN6 (VTC*)	AL	2
2	Gas Cylinder	AIT-XA36	H2	80%	Gas + Cylinder, N2 Balance Filled in 50-liter seamless steel Tolerance: $\pm 5\%$ Accuracy: $\pm 3\%$	50	150 bars $\pm 5\%$	BS4/DIN1 (VTC)	Steel	2

\*VTC: Vendor to Confirm

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## 9. LETTER OF CONFORMITY

Here with we confirm that our quotation ..... in response to your inquiry document for "INQUIRY DOCUMENT FOR GAS ANALYZER CAPSULES" dated ..... is fully in accordance with the conditions as stated therein and we confirm that all technical requirements as stipulated in the above mentioned inquiry documents have been adhered to, except deviations listed as follows:

1.

2.

3.

4.

5.

-----  
**Date, Signature (Vendor)**

Notes:

1. Deviation shall be listed here complete explanation shall be written in separate sheets.
2. If no deviation exists, vendor shall specify by writing "NO DEVIATION".
3. Please be informed that all Inquiry document and attachments should be signed and stamped by vendor.