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SOUTH REFINERIES COMPANY IS RE-ANNOUNCING THE ISSUANCE OF HEREUNDER REQUISITIONS . ACCORDINGLY WHOSOEVER WOULD LIKE TO PARTICIPATE AND OFFER SHOULD ATTEND SRC / HEADQUARTER LOCATED IN BASRAH/ SHUAIBA.

GAINING TENDER SPECIFICATIONS FOR AN AMOUNT MENTIONED AGAINST EACH TENDER CASH IN ADVANCE IT IS NON REFUNDABLE WHATEVER REASONS AND WHO WINS THE TENDER SHALL PAY THE COSTS OF LAST ANNOUNCEMENT.

CLOSING DATE WILL BE UNTIL THE END OF OFFICIAL WORKING HOURS OF SUNDAY 26/ AUGUST /2012.

ITEM	REQ NO	DESCRIPTION	PRICE
1-	25/2012/E	TESTING AND FIXING TOOLS FOR SIMATIC NET PROFIBUS PCF FIBER OPTIC	50\$
2-	23/2012 E	Complete on-line & portable O ₂ analyzer	50\$


FOR/ DIRECTOR GENERAL
AKEEL SH. AHMED

22-7-2012

REQ. №. 23/2012
Complete on-Line & portable O₂ analyzer

Introduction:

Our request is to supply and install on-line O₂ analyzer that continuously measures the concentration of O₂ in process gases and to supply portable O₂ analyzer . A cabinet (shelter) with **Explosion proof** air conditioning system must be supplied and installed in hazard area, with suitable size to accommodate the analyzer as shown in sketch № (1). The on-line O₂ analyzer is installed inside the shelter this shelter is separated by a maximum 200 meters from control room.

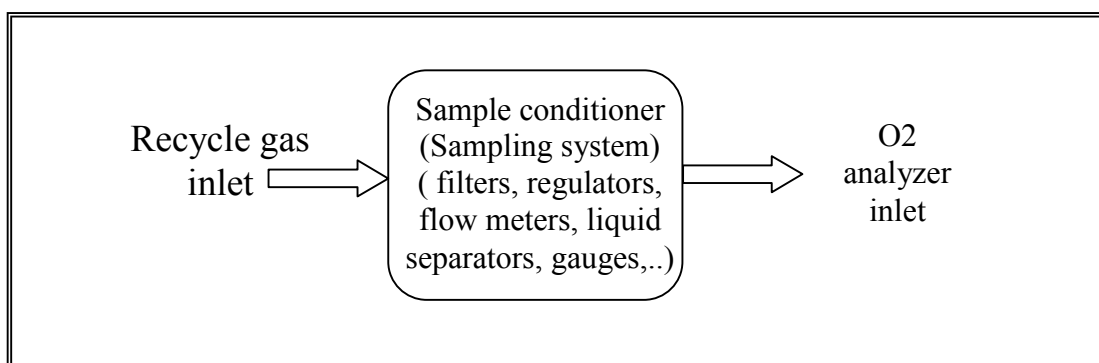
Sample Condition:

1-composition:

	Normal operation Volume%	Before operation volume%	Regeneration operation volume%
O ₂	-	< 0.2	0 - 14
N ₂	-	100	100 - 50
CO ₂	-	-	0 - 36
H ₂ + H.C	100	< 0.2	< 0.2
CO	-	-	Max. 50 ppm
SO ₂	-	-	0 - 40 ppm
H ₂ S	1-10 pm	-	0 - 40 ppm
N ₂ O	-	-	20 ppm
H ₂ O	< 200ppm	-	1000 ppm

2 – Inlet Pressure and Temperature:

Pressure: 16 kg/cm² G
Temperature: 50 C°



Sketch diagram № (1)

Item1: online O2 analyzer

Specification:

- 1- Measuring range: 0-10% O₂ & 0-25% O₂ by volume.
- 2-Accuracy : $\pm 1\%$ FS
- 3- Power requirement: AC 110V, 50 Hz.
- 4- Ambient Temperature Limits: room temp.
- 5- Analog output: DC 4-20mA.
- 6- Engineering unit: % O₂ by volume.
- 7-Field Unit Hazardous area specification: Explosion-proof Class I; Div1 Group A, B, C and D, zone1.
- 8- Enclosure protection: IP55.
- 9- Transmitter protection:IP65
- 10- Quantity: One Complete system.
- 11- **any gas needed must be supply for two years continuous operation.**
- 12- Including liquid separator at the sample inlet and filter with continuous liquid drain system with sample conditioner to reduce pressure and temperature if it is required.

Item2: portable O2 analyzer

Specification:

- 1- Measuring range: 0-10% O₂ & 0-100%vol O₂.
- 2- protection: IP55.
- 3- Rechargeable batteries.
- 4- 220V , 50Hz Battery charger.
- 5- carrying case.
- 6- Ambient temperature 0C° to +45 C°.
- 7- type of protection: II 2G Ex ia IIC T4
- 8- Quantity: two.

Other requirements:

- 1- Two years recommended spare parts
- 2- Documents in 3-hard copies and CDs.
- 3- One year guarantee.
- 4- FAT and calibration on the manufacture.
- 5- Five working days training at manufacture for two SRC persons.
- 6- **Installation, Testing, commissioning, start up and 48H test run.**
- 7- supplying PC Laptop for diagnostic and software calibration and Programming if it is required.

Notes

1. Offer should be include complete sampling systems. Provide us with a list of components and the equipments that is installing inside and outside the analyzer house like regulator, filters, pressure gauges, valves, flow meters, liquid separator , Fittings, Pipes, signal cables , power cablesetc, with all sampling system accessories , and sketches of the process diagram.
 2. The distance between the Analyzer Enclosure location and the sample is about 10 meters.
 3. Maximum separation of Field unit and control station is 200m (connection cable required if it is special).
 4. For more information a bout the inquiry, the suppliers can do site survey for the plant in Basrah refinery.
 5. The contractor must cover all items and notes that is mentioned in our requirements clearly in details.
 6. Supplying complete cabinet (shelter) with **Explosion proof** air conditioning system, with suitable size to accommodate the analyzer.
- Main power for shelter:** 3P 380 V, 50 Hz or 1P 220 V, 50 Hz.
- Shelter Classification area:** Explosion proof Class I; Div1 Group A,B,C and D, Zone1.
- Power requirement for analyzer:** 1P 110 V, 50 Hz.
- Ambient Temperature Limits for cabinet (shelter):** -5°C to +55 °C.

Origin:

West Europe, USA, Japan, Canada, Australia for main items, Relative equipment and accessories (gauges, Regulators, Flow meters, Valves, Tubes, PC laptop, Filters, Liquid separators, heat exchangers, Battery charger for portable O2 analyzer. ...etc.) from international manufactured (all countries).