

ADVERTISEMENT

MIDLAND REFINERIES CO. ANNOUNCES FOR PURCHASING THE MATERIALS AS STATED BELOW:-

REQ.NO.	DESCRIPTION	QTY	ESTIMATED COST	ADVERTISEMENT NO.
3502/2014	COMPLETE SOOT BLOWERS WITH GEARBOX AND ELECTRICAL MOTOR FOR (TWO BOILERS 9 & 10)	4 ITEMS	600000 \$	ONCE

NOTES :

- 1-The Requisition to be sold In (250,000.00) Iraqi dinars; Un returnable.
- 2-Technical and Commercial offer should be opened at The same time, The representatives of the companies can be attend to our company (MRC) at 10 O'clock morning one day after the closing day stated below in item (24) .
- 3-Offered prices should be (CIP) Baghdad / Daura refinery and preferred to be in us dollar. They will be final and un negotiable. (MRC) is not obliged to accept the lowest prices. prices in local currency are not acceptable for foreign requisitions.
- 4-Offers (Technical & Commercial) to be submitted, Separately in sealed envelopes, either directly at (MRC) reception bureau or sent by(DHL). the requisition number, the description and the closing date should be fixed on both envelopes. the validity of the offer should be mentioned within the technical offer ; also on the envelope of the commercial offer. Offers sent by E- mail will be neglected.
- 5- The validity of the Bid Bond and the offer should be mentioned within both offers and should not be less than (120) days .
- 6- All pages of, Both, The Technical and Commercial offers should be numbered in sequence, Including The attachments and Documents.
- 7-All Documents (Profile) and similar contracts achieved ,issued by Governmental Contracts should be submitted before purchasing the Req. – for The current year or enclosed within the technical offer.
- 8-A Bid Bond of (1%) from the total value of the offer(Commercial offer) should be submitted as (Letter of guarantee, Certified cheque or Bank guarantee) (Original copy) , Issued from :(Trade bank of Iraq ,Iraqi Middle east investment bank , Kurdistan international bank , united bank for investment , gulf commercial bank , credit bank Iraqi , Ashur international bank for investment , al- Huda bank , Islamic cooperation bank for investment , Arbil international bank , Gihan bank for Islamic investment & finance , national Islamic bank] .and released immediately in case the requisition is not awarded. cheques & bank guarantees issued from [Alwarkaa bank – Islamic Bilad bank or Basrah international bank] are not acceptable. this bid bond should be valid for not less than (120) days.
- 9- The Delivery period (In days) should be, exactly specified.
- 10-Basic Terms of payment is by Irrevocable & Unconfirmed letter of credit to be paid (100%) after the receipt of goods in Baghdad complete and as ordered. other terms of payment may be, mutually, agreed upon latter and for certain conditions, which are : a portion of the total amount to be paid, but against bank guarantee. by Iraqi dinar, for Iraqi companies. by bank transfer if requested by any company, considering that they have an account in any accredited Iraqi bank.
- 11- Delay penalty to be applied with total amount, Not exceeding (10%) of the total value of the P/O.
- 12- An Unconditional Performance Bond of (5%) of The Total value of The L/C to be submitted, before signing the P/O and from one of the banks mention in item (8) within (14) fourteen Days from the Date, The Supplier is Informed of the award. For any delay beyond the specified period, The award will be cancelled and the supplier will be considered as a **shirker**. The issue of the (L /C) depends, mainly, on submitting this bond. The performance bond should be valid for one month later than the delivery period or until the guarantee period (if stated), Is over. This performance bond will be released after the receipt of goods complete and as ordered and the supplier has fulfilled all his commitments regarding the p/o. otherwise, it will be confiscated.
- 13- (2.7%) of the total value of the p/o to be deducted as taxes for Iraqi companies. also, in case the payment is in Iraqi dinar. for non-Iraqi companies, this amount will be retained as taxes and will be released when a tax discharge issued by (the Iraqi state committee of taxes) in favor of the company is submitted within (180) days from the date of receipt of the goods complete and as ordered. otherwise, this amount will be sent to the (tax committee).
- 14- (0.002) off the total value of the p/o to be deducted as stamp charges.
- 15- A sum of (id 205,000.00), to be deducted as cost of import license.
- 16- Origin Certificate & Commercial Invoices should be approved by Iraqi Embassy/Commercial attaché in the country of origin.
- 17- The participant has no right to omit or make any amendment, whatsoever, to any of the paragraphs of the requisition document.
- 18- The Origin of the materials should be specified in the offer and fixed. and will not be changed for any reason.
- 19- Third Party Inspection Certificate Should be provided from one of the following companies : [(B. V.) France – Tuv Rheinland – Baltic control – Cotecna]
- 20- All offers and correspondences Should be, Clearly, Signed by the general manager or whom is officially empowered via power of attorney. otherwise the offer will be neglected.
- 21- IT IS NECESSARY TO PRESENT AUTHORIZATION LETTER FROM THE MANUFACTURER COMPANIES CERTIFIED FROM MINISTRY OF FOREING AFFAIRS OR EMBASSY OR CONSULATE OR THE COMMERCIAL ATTACHED IN COUNTRY OF ORIGIN
- 22- in case the supplier fails to supply all or part of the requested materials as ordered and according to the technical specification stated in the purchase order, our company has the right to deduct their cost at the highest offered price submitted by competitors in the table of price analysis for such items.
- 23- The awarded supplier will bear the advertising fees.
- 24- Iraqi laws are applied : The Tender and The Contract shall be governed and construed according to the Iraqi law. Courts shall have the exclusive jurisdiction to hear and determine all actions and proceedings arising out of the contract. governmental debts collection law (no. : 56), for the year 1977 shall be applied on amounts owed to (MRC) .
- 25- closing date: 7/4/2014, till (1.00) o'clock (afternoon).

note: you can find the conditions of submitting offers on website :
www.oil.gov.iq - www.mrc.oil.gov.iq

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REQ. NO. 3502/2014

Complete Soot blowers with gearbox and electric motor for two boilers as furnished in the following items below, the process shall be controlled by (PLC) as furnished in Item 3 specification(certification of origin and mill certificate should be supplied) .

ITEM. 1 (QTY: 4 NOS)

Complete retractable soot blower type (RSB- 63) or equivalent.

- Element pipe: bore dia: 89 mm, length: 2733 mm.
- Time unit blow: 1.775 min, time (TOT) 2.05 min.
- Travel: 2050 mm.
- Blowing travel: 1775 mm.
- Travel speed: 2000 mm/min.
- Blowing angle: 360°.
- Peak gas temp. (Max): 1006C°.
- Nozzle data: revolution 20 rpm, bore DIA. 22 mm, quantity: 2.
- Steam consumption: 4910 kg/hr.
- Motors: 3 phase, 380v, 50 Hz, insulation type b, amb temp 55c° rise 75 C°.

ITEM. 2 (QTY: 10 NOS)

Complete rotary soot blower type (G9A- E63) or equivalent.

- Element pipe: bore: 60.5 mm, length: 2340 mm.
- Blowing properties: blowing angle: 300° blowing press: 14 kg/cm², blowing rate: (steam consumption): 5430 kg/hr, blowing time: 1.15 min , nozzle: revolution: 1.45 RPM, bore: 7.9 mm, quantity: 17.
- Bearing quantity: 5 (weld).
- Peak gas temp: 516 C°
- Valve size: 2 ½" # 300 RF.

- Motors: 3phase, 380 V, insulation type b, amb temp 55C°, temp rise 75 C°.

ITEM. 3

Standard & Codes

The bidder shall design the control system required for this project in accordance with the following codes:

- A. The instrument society of America (ISA)
- B. American Petroleum Institute (API)
- C. British Standard Institute (BSI)
- D. Underwriter Laboratories (UL).
- E. American national standard institute (ANSI)
- F. National Electric Code (NEC).
- G. International Electro technical Commission (IEC).

General design

Basic design

- A. Any omission in this specification shall not relieve the contractor of his obligation to furnish a system that is complete and which will operate satisfactory manner.
- B. Bidders shall offer in their proposal a modern system and equipment which in corporate latest technology.
- C. The contractor shall supply the control system completely configured and programmed. The contractor shall also provide all modifications to both software and hardware required at start-up and check-out.
- D. Instrument and associated equipment shall be designed and installed to meet the following requirements:
 - Maximum accuracy of sequence and control
 - Full safety.
 - Efficient protection against abuse due to chemical or physical force.

- All process variables effecting operation of the plant are under automatic control through instruments in the main control room
 - All the electrical instrument and apparatus have to be installed in the explosion proof area to be of that type as per codes stated above.
 - Instruments shall be protected from adverse conditions by protected sunshade, sealing, housing, insulating and purging if necessary.
 - All instrument and equipment should be identified by means of metallic tag (plastic tag may be used indoors).
 - At an emergency failure of the instrumentation air or power, the plant shall be automatically shifted in a safe condition.
 - All instruments shall be installed so as to be readily accessible for handy adjustments and maintenance.
 - Isolated relay circuit between instrument signal and electrical power
- engineering units shall be in accordance to the metric system.

Site condition

A. Temperature range	-8°C to +55°C
B. Humidity range	12%RH to 90%RH
C. Ambient pressure	ATM

Transmission system

- Stainless steel tubing of 1/2 inch OD for instrument air signal and supply.
- 1.5 mm Armored twisted pair shielded cables.
- Instrument circuits shall be grounded to reduce the effect of Electrical interference.

Limit switch

Limit switch for start and end position of soot blower equipment.

Control and monitoring System

- CONTROLLER: The unit shall be controlled using control panel (PLC) Program Logic Control
- HMI: Industrial (HMI) for operator system at minimum 8 inch.
- PROGRAMABLE UNIT: one industrial laptop (PC) for engineering unit. Provided with Application system software, project software, passwords and license key must be provided for (PLC, HMI).
- Control Manipulation

The operator station shall provide the following function:

- A. Indication of control and non-control variables.
- B. Process graphics (schematics) based on P&I Diagrams with Superimposed current readings for monitoring and controlling the soot blower system.
- C. Status displays of sequential control performances.
- D. Protection shall permanently function, independently of the selected mode of operation.
- E. The proposal shall deal with protection by means of application software.
- F. The contractor shall be provided the control system completely configured and programmed. The contractor shall also provide all modifications to both software and hardware required at start-up and check-out.
- G. Automatic shutdown of the controlled equipment or part of there in case of occurrence of conditions those are dangerous to the operation.
- H. Recording by dedicated, real-time and historical trend recorders.
- I. Alarm annunciation and display.
- J. Event logging.
- K. Start/Stop software push button motor station operation.
- L. Open/Close software push button valve station operation.
- M. System status report.
- N. Alarm summary

- O. Trend recording Continuous recording (history) shall be provided for all system and process variables (to be print).

- **Accessories**

- A. The PLC control panel cabinet shall be provided in an air conditioner, back doors, and dustproof, ventilated and provided with Fluorescent lamps and glazed, suitable for outdoor hazard area condition.
- B. Two set of Local control box for locally operation control local/remote, auto/manual push buttons and indication lamp suitable for outdoor hazard area condition.
- C. Uninterruptible power supply UPS 220V 50 HZ capacity shall be used for PLC cabinet for two hours minimum during interruption of main power and put it inside the control room. Notes
 - A. All programmable transmission devices shall be complete system.
 - B. The system must be tested and calibrated and ready for operation.
 - C. All documents of operation, installation, calibration must be provided.
 - Instrument data sheets
 - Material specification sheets
 - Schematics (connection/ Wiring diagrams/ P&I Diagrams)
 - Data book (specification catalogue/ commissioning/ maintenance manual/ calibration certification/material certification).
 - D. Service tool that used to reload the program to the PLC and HMI must be provided
 - E. Software and license key shall be floating (Flash Type).
 - F. The system shall be guaranteed for correct performance and meeting specification for two years after being commissioned.

- **Training**

- A. The period and number of MRC personal required shall be agreed and shall be implemented in the factories company of manufacturer.
- B. MRC engineer shall attend the programming and design of the PLC project as training.
- C. The contract shall provide the Topics of course for MRC Trainees.

- **Vender list**

DCS& PLC

- Siemens
- Allen Bradley
- Emerson
- Yokogawa
- Honeywell

Limit switch

- UE
- DELTA

Relays and isolated circuit

- Phoenix
- Siemens

ITEM. 4

Electrical requirement for blowers: -

1. Local power and control panel:

MER: Schneider- Germany

Siemens- Germany

Two local control panels each one contain eight motor starters for the seven soot blowers and the electrical steam valve (voltmeter, ammeter, start, stop, reset push buttons, selector switch for auto-manual operation for each motor, indication lamps for (no, off and trip... etc), control voltage should be (220V AC, 50 Hz).

2. Motor:

MER: brook- Germany

Schorch- Germany

380 V, 3 phase, 50 Hz.

Explosion proff motors EExd, IP 55 class (F) insulation, class (B), temperature rise (75) C° all motors should be according to (IEC) standard.

3. Cables: -

MER: - Siemens- Germany

BICC- England

Pirelli- England, France, Italy.

Rated voltage for all cables should be (KV), all cables shall be multi conductor XLPE insulated PVC over sheath steel wire armored.

A. Power cables: - (4×4) mm² (250) m length for each boiler.

B. Control cables:-

1. (7×2.5) mm² (150) m length for each boiler.

2. (5×2.5) mm² (150) m length for each boiler.

4. control valve:

Valve No. 1j3009

Rotork

Shimadzu

Kyoto – japan

Actuator ss2 – 11 A

Serial number: 1H2565 – 2

Output speed: 18/50 Hz

Motor 3 phase squirrel – cage induction rotor special cage type.

RTG

15 – mins 0.2 KW 4P class b

Supply 3 phase 50/60 Hz 380 V

Overage current 1.8 A

Enclosure WT

Oil SAE 80W/90 0.4 lit

Auxiliary switch RTG 0.8 A 125 V DC

Date 1-82

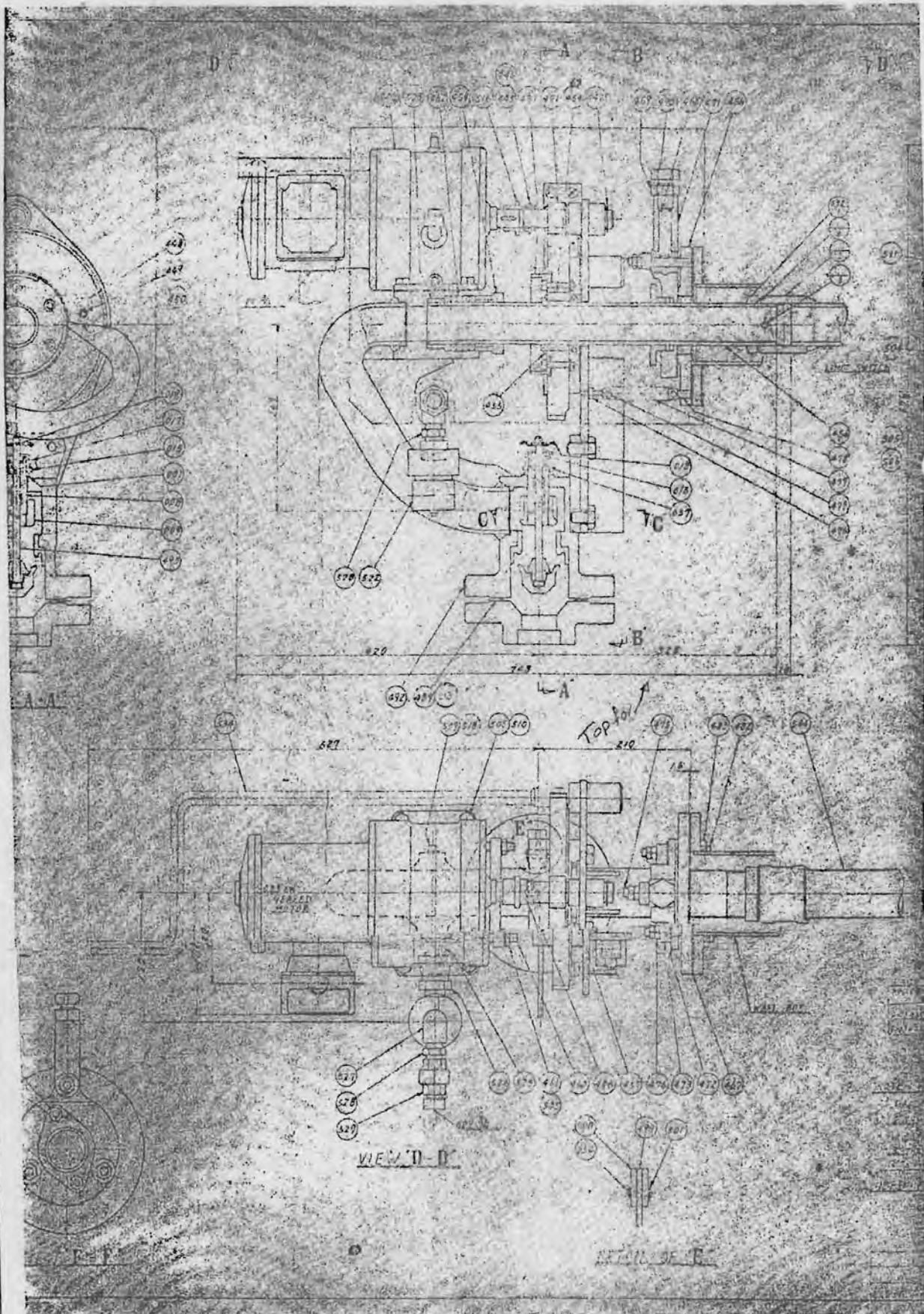
Japanese patents 525634 – 525636

577784 – 696565

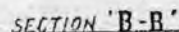
Other patents pending

671 – 72763 F – 14

(Very important note: - third party certification should be supplied for the raw material and all the mechanical and the electrical component (all the necessary destructive and non- destructive test should be fulfill, only visual test will note be accepted)



Item 2



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1. ALL DIMENSIONS IN LISTING SYSTEM
2. THE END SPAN SHOULD BE PRINTED IN THREE
3. THE MATERIAL QUALITY NO. 2 AND 3 USED IN
4. THE SPAN AND THE OTHER

159. $EF = W'$

STOP PROJECT NO. 105 :
LIC. JOB NO. 4258210 :

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2004-10-10

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