

**Bureau of Indian Standards
Central Laboratory
Plot No.20/9, Site-IV,
Sahibabad Industrial Area, Sahibabad,
Distt. Ghaziabad-201010 (U.P.), INDIA**

Ref: CL/PP/BID-02 (12-13)

Date: 6th Dec 2012

Subject: Purchase of Carbon Sulphur Analyser – 3 Nos .

Dear Sirs,

Technical & Financial Bids are invited for the supply of **Carbon Sulphur Analyser – 3 Nos (for BIS Labs located at Sahibabad, Mumbai and Mohali)** in sealed covers, which should reach the undersigned latest by 1500 h, on **7th Jan 2013 (Monday)**, at the following address.

**Head (Planning & Purchase)
BUREAU OF INDIAN STANDARDS
Central Laboratory
Plot No.20/9, Site-IV,
Sahibabad Industrial Area, Sahibabad,
Distt. Ghaziabad-201010 (U.P.), INDIA**

(or)

The sealed Bids can also be dropped in the Tender Box placed at the main gate of BIS Central laboratory.

2.The detailed specification of the above mentioned equipment(s)/item(s) are given in **Annex- I**

3. Terms and conditions of supply are given in **Annex-II**

4. The technical Bids shall be opened in the **Conference Hall**, of the Central Lab, at the address mentioned above at **1530 h on 7th Jan 2013 (Monday)** and in the presence of such tenderers or their duly authorized representatives, who may like to attend.

5. Please note that the envelopes containing Technical & Financials Bids are sealed properly i.e. either wax sealed or with adhesive cello tape on both ends. **Unsigned Bids, Unsealed /stapled envelopes** and bids **without EMD** shall be summarily rejected. **No exemption** whatsoever for payment of EMD shall be accorded. The envelope containing EMD shall be stapled separately with the envelope containing the commercial Bids. The value of EMD should not be disclosed in technical bid.

6. The specification and Terms & Conditions can also be downloaded from Central Public Procurement portal www.eprocure.gov.in and also from BIS Website – www.bis.org.in .

Thanking you,

Encls.: as above

Yours faithfully,

Sd/-
Scientist-F & Head (Planning & Purchase)

Annex –I

Specification for: Carbon Sulphur Analyser (CS Analyser)

EQUIPMENT/SPECIFICATION CODE : ACC 04 CP

**NAME OF THE EQUIPMENT : Carbon Sulphur Analyser
(CS Analyser)**

PROPOSED FOR BIS LABS : CL, WROL & NROL.

TOTAL QUANTITY REQUIRED : THREE Nos

1. Purpose: For Carbon Sulphur Analyser (MS, SS and Tool steel) and Cement samples as per relevant Indian standards.

2. Technical requirements: Please see **Annex -I_A** attached along with.

**Microprocessor based PC controlled simultaneous Carbon & Sulphur
Analyser for steel (MS, SS and Tool steel) and cement samples**

S. No	Features	Requirements	Response of bidder. Indicate only Yes /No.
1	Design	The instrument should consist of a maximum of two cabin units making a combination of analyser and detector systems	
2	Configuration	The instrument should be capable of simultaneous determination of carbon and sulphur in different ranges using a single-point/ multiple point calibration applicable over entire range or 3-4 different ranges calibrated by appropriate IR detection cells (detection channels)	
3	Power supply	230±10 V, 50 Hz, single phase	
4	Detection range	Carbon : 5 ppm (0.0005 %) – 3.5 % or better Sulphur : 5 ppm (0.0005 %) - 0.35 % or better (Based on 1 g of sample taken for analysis)	
5	Accuracy	Carbon : 0.5 % RSD or better Sulphur : 1.5 % RSD or better	
6	Operating temperature	10°C – 40°C	
7	Determination and detection	High temperature oxidation followed by Non-dispersible / solid state infra-red absorption detection system	
8	Furnace for combustion	High frequency induction furnace capable of achieving a temperature of minimum 1500°C and also capable to fuse highly alloyed steels like stainless steel and tool steel etc.	
9	Analysis time	Less than 90 seconds	
10	Sample size	System should be capable to handle sample weight of up to 2 g	
11	Calibration and blank settings	These should be specific to different methods e.g. steels (in different ranges for C & S) and cement etc.	
12	Electronic balance	Integrated with the instrument and should have i) Range : Up to 50 g ii) Least Count : 0.1 mg or better iii) Readability : 0.1 mg or better iv) Repeatability : 0.2 mg or better v) Linearity : 0.2 mg	

13	Readability	For the results of both C and S , a minimum of six digits after decimal or better	
14	PC	Latest branded PC having minimum Pentium IV, Core 2 duo processor, 2 GB DDR SD RAM, 160 GB HDD or better, installed with original licensed Window 7 operating system, provided with compatible cables and ports so as to establish instrument to PC & printer connectivity	
15	Monitor	Flat panel LCD, minimum 17" display screen	
16	Printer	Latest branded laser jet, A4 size black & white prints	
17	Software to support	<ul style="list-style-type: none"> i) System control ii) GLP compliant software with facility of multi-point calibration iii) Automatic leak check with pressure display on screen iv) Automatic cleaning of the furnace port after a specified number of analysis v) Data storage facility for future reference vi) Graphical display of measurement processes vii) Monitor the system parameters including qualitative analysis; data acquisition, retrieval a and reporting viii) All operation, security, calibration and diagnostic mode ix) Automatic detection of leakage x) Relevant safety alarms xi) Password protected control to limit access to data and methods 	
18	Consumables	Complete set of consumables (absorbent trap chemicals, accelerator and crucibles etc.) for at least 5000 analysis to be supplied along with the instrument	
19	CRMs	<p>Following CRMs(any declared value of Carbon and Sulphur within the ranges given below) traceable to international standards with composition certificates to be supplied along with the instrument</p> <ul style="list-style-type: none"> i) Steel CRM C 0.06-0.12% & S 0.010-0.025 %, 1x100 g ii) Steel CRM C 0.12-0.25% & S 0.030-0.050 %, 5x100 g iii) Steel CRM C 0.35-0.50% & S 0.060-0.090 %, 5x100 g iv) Steel CRM C 0.80-1.20% & S 0.010-0.030 %, 1x100 g v) Cement CRM equivalent to 33 grade of OPC as per IS 269:1989 1x100 g 	

Other Notes:

20. Warranty for at least two years from the date of satisfactory installation shall be provided by the manufacturer. Further the manufacturer/supplier should be able to provide after sales services or AMC at the location where instrument has been installed.
21. The supplier shall enclose at least three Performance Certificates from organizations of national repute along with the address and contact number of responsible persons who have been using the instrument for a period of minimum three years.
22. Necessary standards for the range specified in the application shall be provided with the instrument.
23. The requirements of any other accessories like Voltage stabilizer, UPS, gas cylinders, compressor etc. required for the smooth operation of the instrument are to be mentioned in detail in the bid document.
24. The suppliers qualifying in the technical bids will have to arrange for the demonstration of the instrument model being offered at CL, Sahibabad. Financial bids will be opened only after the performance is found satisfactory for the indented use.
25. The instrument supplier has to demonstrate the performance of the instrument using various CRMs to the satisfaction of BIS. The supplier shall provide the training to 3-4 persons at the site for the operation and general routine maintenance after installation.
26. Original catalogues with relevant features should be supplied along with the bids.
27. Successful bidder will have to inform the Bureau regarding Civil work/any other arrangement required to be made for installation and complete working of the CS Analyser sufficiently in advance before supplying the equipment. The same may be determined by prior visit to the premises where CS Analyser has to be supplied.
28. Every page of the technical and financial bid must be signed by the authorized signatory of the bidder along with their stamp.
29. **The technical bid has to be filled in the format given above (Annex I_A) compulsorily. Various Technical features may also be elaborated separately if so desired by the bidder. However, Bids without filled, signed and stamped Annex I_A will be rejected.**

ANNEX-II

**BUREAU OF INDIAN STANDARDS
(CENTRAL LABORATORY)
Sahibabad, District Ghaziabad – (UP) INDIA- 201010**

TERMS & CONDITIONS

1. The Bidders are requested to give detailed tender in the forms of two bids i.e.
Part - A Technical Bid.
Part - B Financial Bid.
2. **The Technical & Financial Bids should be sealed and sent separately in sealed envelopes & duly super-scribed (giving Equipment name, technical/financial bid, due date of opening & Ref. No. on the top of the envelope).** Such Bids shall remain valid for a period of 120 days from the date of opening.
3. Bidders may be required to arrange practical demonstration of equipment/model quoted by them before opening of the financial bid.
4. The Technical Bid [Part A] should accompany complete specification, Manufacturer's name, address and following details :
 - a. Expected life span of equipment and accessories.
 - b. List of pre-installation facilities required for installation and commissioning of equipment and also consumables to be arranged by the Bureau,
 - c. List of the Users in India especially Govt. Labs. /Institutes with complete postal address to whom the similar equipment has been supplied,
 - d. Near locations in India from where after sales services shall be provided along with the name of Servicing Agent,
 - e. The optional and any other essential items/accessories required for the maintenance of the equipment for the next three years.
 - f. Technical Literature of the equipment along with necessary clause wise photograph/drawings, if any
 - g. **Compliance statement vis-à-vis specification clauses, including statement of deviation, if any (Annex-III).**
 - h. **Delivery Period:** The delivery of the equipment is required to be made within 90 days of the date of order. If, it is not possible for you to affect delivery within the period, you are required to specify the date by which you can guarantee delivery of the stores.
 - i. **Warranty:** The equipment is to be guaranteed for trouble free performance for a **minimum period of two years after commissioning.** The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary.

- j. The Bidders are required to furnish the Permanent Account Number (PAN)/TIN of the firm Allotted by the Income Tax Department.
5. Each tender document shall be accompanied with **EMD of 3% of total cost of the equipment (excluding taxes)**. The demand draft for the EMD amount shall be drawn in favour of BUREAU OF INDIAN STANDARDS payable at Ghaziabad. The sealed envelope containing EMD should be super scribed “EMD” and **stapled separately with the envelope containing the commercial Bids. No disclosure of amount of EMD in Technical Bid should be done.**
6. Cost of the items should be mentioned clearly in the **Financial Bid [Part-B]** only. The following details need to be included :
- Price break-up of main equipment and accessories and consumables to be supplied by the party,
 - The rates quoted should separately indicate Basic Cost, Excise Duty, Sales Tax, Packing & Forwarding charges, Freight, Insurance, VAT etc. Rates quoted should specifically state Sales Tax, Excise Duty or any other taxes/charges. In absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same shall be entertained. **Form C/D shall not be provided by BIS. In case of foreign supplier BIS shall pay Custom Duty.**
 - Rebate on the quoted price, if additional equipment is procured for any other BIS Lab, and
 - The Annual Maintenance Contract charges for next three years after the expiry of warranty period.
 - CIF (Carriage Inward & Freight), Sahibabad value both by Airfreight and Ocean freight, where applicable.
 - For foreign supplier the current value of the foreign currency would be applicable at the time of placing the order.
7. BIS shall pay **90%** of the cost after satisfactory installation & commissioning and the Balance of **10% as contract performance security** would be paid after 60 days of expiry of warranty period. **In case of foreign suppliers** 100% payment shall be made by an Irrevocable Letter of Credit established in favour of the supplier through the Canara Bank, DDU Marg, New Delhi, for the order value provided an unconditional Performance Bank Guarantee in the format given at **Annex IV**, valid till 60 days after the warranty period from a Nationalized Bank for 10% of the order value within 15 days of placement of the order is given to us. The Agency Commission to the Indian Clearing Agent will not be paid by the Bureau. The firm has to arrange for it. BIS shall provide Custom Duty Exemption Certificate at the time of Custom Clearance as well as any applicable Custom Duty.
8. Place of Delivery:
- i) Head (Chemical Lab)**
BUREAU OF INDIAN STANDARDS
Central Laboratory
Plot No.20/9, Site-IV,
Sahibabad Industrial Area, Sahibabad,
Distt. Ghaziabad-201010 (U.P.)

ii) Head (WROL)
BUREAU OF INDIAN STANDARDS LABORATORY,
Manakalaya, E-9, MIDC,
Behind Marol telephone Exchange,
Andheri (East), Mumbai - 400093

&

(iii) Head (NROL)
BUREAU OF INDIAN STANDARDS LABORATORY
B- 69, Industrial Focal Point Phase VII,
SAS Nagar, Mohali (Punjab)-160059.

The equipment will be installed and commissioned at Central laboratory, Sahibabad first and after satisfactory commissioning at CL the equipment will be supplied to other two labs (ie., WROL and NROL).

9. Quotations/bids qualified by indefinite expressions such as “Subject to immediate acceptance” etc. and incomplete quotations are liable to be summarily rejected.
10. In case of foreign quotation, the address of Principal / Manufacturer and their Banker’s details should be furnished. The supplier is required to have an import license for the equipment quoted where applicable as per GOI guidelines.
11. All goods shall be inspected by BIS preferably in the presence of supplier or his authorized representative, when the packages are opened in Labs prior to installation. The decision of BIS shall be binding. Rejected items/goods/stores shall be removed by the supplier at his own cost and risk, within 30 days of receipt of notice for the removal of such goods, and no liability, whatsoever, on the Bureau shall be attached for the rejected/disapproved goods/items/stores.
12. INSTALLATION: Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter. If the supplier fails to supply, install and commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay Penalty of one percent of the value of Purchase Order awarded per every seven days delay, subject to a maximum of 10% of the total value of the order and such money will be deducted from any money due or which may become due to the supplier.
13. The supply of spare parts is to be guaranteed at least for a period of 10 years after the supply of the equipment.
14. The Bureau reserves the right to accept or reject summarily and/or all tenders in whole or part without assigning any reason whatsoever.
15. The Date and Time of opening for Part B (Financial Bid) will be intimated only to technically acceptable/qualified tenderers at a later date.

16. In case of any dispute arising out of this agreement then DG BIS shall nominate any officer of the BIS a sole arbitrator to adjudicate upon the issue involved in the dispute and the provisions of the Arbitration Act shall be applicable.
17. All question, disputes or differences arising under, out of or in connection with this Bid document shall be subject to the exclusive jurisdiction of Delhi/Ghaziabad Court.

Sc- F & Head (Planning & Purchase)
Bureau of Indian Standards
Central laboratory.

Annex- III

DEVIATION STATEMENT FORM

- 1) The following are the particulars of deviations from the requirements of the tender document and specifications:

SPECIFICATION CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

PLACE:

DATE:

SEAL & SIGNATURE OF BIDDER

NOTE: 1. Where there is no deviation; the statement should be returned duly signed an endorsement indicating “No Deviations”.

ANNEXURE-IV

PERFORMANCE SECURITY FORM

To _____ (Name of Purchaser)

WHEREAS _____ (Name of supplier)
Hereinafter called "the Supplier" has undertaken, in pursuance of Contract No. _____ dated
____Month _____ Year to supply _____ (Description of Goods
and Services) hereinafter called "the Contract".

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you
with a Bank Guarantee by a Nationalized Bank for the sum specified therein as security for compliance
with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the
Supplier, up to a total of _____ (Amount of the
Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring
the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within
the limit of _____ (Amount of Guarantee) as aforesaid, without your needing
to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of _____ Month ____ Year.

Signature and Seal of Guarantors

Date -----Month ----- Year

Address -----
