CSIR - NATIONAL PHYSICAL LABORATORY
(Council of Scientific & Industrial Research)
Dr. K. S. Krishnan Marg, Pusa, New Delhi -110 012
Tele Fax: +91 11 45608645, Fax: +91 11 45609310
Emails: spo@nplindia.org cosp@nplindia.org

From: Director, CSIR-NPL Dt.: ……..

Dear Sirs,

Sub.: INVITATION FOR PRE-INDENT CONFERENCE –Intimation Regarding

National Physical Laboratory (NPL), a premier R&D unit of Council of Scientific & Industrial Research, intends to procure the following items as per schedule follows (as per pointer advertisement placed at Annexure -II):

SN.	Ref. No.	Brief details of item(s)	Purpose	Date & Time of PIC	Venue
1.	**14-VII/GM(2394)13-PB**	Robotic Mass Comparator	To be used for maintaining the primary standards at NPL & to improve calibration and measurements capabilities (CMC,s) at par the other National Metrology Institutes (NMIs) in the world.	August 08, 2013 at 10.00 A.M.	Conference Room, 2nd Floor, Main Building, CSIR-NPL, New Delhi -12
2.	**14-VII/PJ(2395)13-PB**	CH_4 and CO_2 Analyzer with required accessories based on CRDS principles	To be used for preparation of Primary Standard Gas Mixture & for impurities analysis in high purity gases in cylinders	August 06, 2013 at 10.30 A.M.	
3.	**14-VII/PJ(2396)13-PB**	CO Analyzer with required accessories based on CRDS principles			

In this regard, **Pre-Indent Conference (PIC)** is/are being organized to finalize the broad technical specifications of the required system(s) as mentioned above. Prospective OEMs or their Authorized Distributors, System Integrators having specialization and experience of such installations and their maintenance thereof are invited to make presentations followed by discussions on technology, design, features utility, technical parameters and other related Techno-commercial issues. The credentials, technical capability, financial standing & track record of vendors, will be evaluated, based upon PIC discussions and documents submitted by the interested parties. For this purpose brief details and purpose of requisite equipment is enclosed at Annexure –I.

Further the detailed scope of PIC and other conditions can be seen on NPL website: **http://www.nplindia.org** under "Tenders/Pre-Indent" → "Pre-Indent Conference Notifications" link. Parties willing to participate must send a formal communication and queries, if any, to Controller of Stores & Purchase (emails: cosp@nplindia.org / spo@nplindia.org), in advance. Further corrigendum/amendments, if any, will be posted in NPL website: http://www.nplindia.org

Interested parties willing to take part in the above said PIC are requested to submit the documents to prove their Technical Capabilities, Client List, Financial Capabilities, Experience and Credentials at the time of attending of PIC along with Vendor Registration Form as per Annexure -III. A Line of confirmation in this regard may be sent.

Thanking you,

Yours Faithfully,

Encl: A/A

(Tariq Badar)
Controller of Stores & Purchase

Ref. No.: 14-VII/GM(2394)13-PB

Required Technical Specifications for Robotic Mass Comparator

Item	Descriptions	
1	Automated robotic mass comparator for mass determination of OIML weights	
	Weighing capacity	5 g
	Readability	0.1 µg
	Repeatability	1 mg to 1 g : 0.2 µg and > 1 g to 5 g : 0.4 µg
	Electrical weighing range	≥ 3.5 g
	Linearity	±4 µg
	Stabilisation time	≤ 20 s
	Magazine positions	≥36 positions
	Electronics, controller	With RS232/USB connection needed
2	Special requirements	
	Subdivision method	Prior to mass comparison, the robot will automatically select and prepare the group of weights as per weighing design
	Special pan for wire weights	Special type of pan for wire weights for reducing eccentricity errors
3	Software requirements to operate and control the test and reference weights, setup measurement procedures, weight evaluation, post processing and import/ export of data files	
	Reference weights	Define and store reference weights with ID, tolerance and density
	Test weights	Define and store test weights with ID, tolerance and density
	Sensitivity weights	Define and store sensitivity weights with ID, tolerance and density
	Sensitivity check	Measurement procedure with sensitivity check at begin and end
	Measurement transfer	Online transfer of measured data into Microsoft WORD & EXCEL programs as .xls & .doc format
	Post processing	option for generated .xls & .doc file
	Language	English only
4	PC for installation of the software and collect data from balance, all sensors export data to network or create a print-out	
	Laptop	Intel Core-i3 Duo Processor : ≥3.0 Ghz, RAM : ≥2 GB; Hard disk : ≥320 GB, DVD-RW, Win 8, Bluetooth, Anti-virus
5	Documentation of all system equipment	
	System documentation	Full detailed documentation & instruction manuals are to be delivered of all components mentioned in this document. Repair / Trouble shooting manual with all circuit diagram to be provided.
6	Supplier requirements	
	Acceptance test	Must be succeeded at least 5 days after the commissioning of equipment.
	Training	On-site training of the complete equipment for two Scientist for at least two weeks must be included.
	Service	Service is ensured by a local sales organisation
	Warranty	Full warranty on complete system components for at least 12 months after undersigning acceptance test
	AMC	Comprehensive AMC for all components & spares is ensured by a local sales organization for 5 years after expiry of warranty.
	Certificate of satisfactory performance	Must be provided.

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Specification of CH_4 and CO_2 Analyzer with required accessories based on CRDS principles

Required Range for CH_4 (0-20 ppm)

Required Range for CO2 (200-1000 ppm)

Measurement of CH_4 in Air, N_2, He, O_2, Ar Co_2 gases in cylinders.

Measurement of CO_2 in Air, N_2, He, O_2, Ar CH_4 gases in cylinders.

Power requirements: 230± 10% V AC/50Hz

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Specification of CO Analyzer with required accessories based on CRDS principles

Working Range for CO (0-5 ppm)

Measurement of CO in Air, N_2, He, O_2, Ar Co_2, CH_4 gases in cylinders.

Power requirements: 230± 10% V AC/50Hz

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PRE –INDENT CONFERENCE NOTICE No: 15/2013

National Physical Laboratory (NPL), a premier R&D unit of Council of Scientific & Industrial Research, intends to procure the following item(s) as per below schedule:

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Sd/-
(Controller of Stores & Purchase)

VENDOR'S INFORMATION FORM

[The interested party shall fill in this form and should submit at the time of attending PIC. This should be done on the letter head of the firm]

1. Vendor's Legal Name :

2. Vendor's actual or intended Country of Registration :

3. Vendor's Legal Address in Country of Registration :

4. Vendor's Authorization Representative Information

Name :

Address :

Telephone/Fax numbers:

Email Address :