

**Progress Report on “Development Facilities for Calibration of Air Pollution Monitoring Instruments and equipments (Ring Test Facility) - Project II(14)**



**Central Pollution Control Board  
Zonal Office (South), Nisarga Bhawan  
Thimmaiah Road, 7<sup>th</sup> D cross, Shivanagar,  
Bengaluru – 560 010**

## Contributors

Technical Adviser	:	Dr. A. B. Akolkar Member Secretary
Principle Coordinator	:	Sh. S. Suresh Zonal Officer
Project Coordinators	:	Dr. M Madhusudnan, Scientist D  Sh.K.Karunagaran, Sr.Tech.Supervisor
Implementation and Supervision of Activities	:	Sh.K.Karunagaran Sr.Tech.Supervisor



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With reference to vide C-48022/1LCB/2006-07/Mat/2981 dt.16.11.2006, this office has taken up project on “Development of Ring Test Calibration Facility”.

Project envisaged that the 1. Earmarking and Providing Furnishing work. 2. Procurement of indigenous items (required analysers/equipments) through Local Competitive Bidding (LCB)( This was taken up by Zonal Office Bangalore and imported items through International Competitive Bidding (ICB) was taken up by CPCB, Delhi) 3. Installation and commissioning of all items and 4. Proceeding for trial run and bringing in to normal operation.

In view of the above, this office has

Earmarked and developed furnishing work for establishing Ring Test facility.

1. Gas handling pipelines and glass pipelines of 12 ports with static volumetric dilution system were procured through LCB and installed at earmarked location. Commissioning of this system can be done only after installation of all other supporting facilities.
2. Procurement of the items through ICB was taken up by CPCB, Delhi in which many of the items were already procured except few items. The details of the items procured (table-A) and to be procured (table-B) through ICB are tabulated as below

<b>Sl.No</b>	<b>Table A. Name of the items procured through ICB</b>	<b>Received and Installation &amp; Commissioning done</b>
1.	Analysers SO <sub>2</sub> , NO <sub>x</sub> , CO, O <sub>3</sub>	August 2009
2.	Dry Flow Calibrator	June 2011
3.	Multi Calibration System	August 2012
4.	Precision Pressure Calibrator/Controller (Digital)	Feb 2013
5.	Portable Calibrator	Feb 2013
6.	Ozone Generator and permeation System	Feb 2014

7.	Air Sampling Pump	March 2014
8.	Permeation tubes for SO <sub>2</sub> , NO <sub>2</sub> (NIST) certified	S.O. Placed by HQ
9.	Calibration Gases (NIST Traceable) (with cylinder & Regulator),	S.O. Placed by HQ

S.No	Table B. Name of the items to be procured through ICB	Qty
1.	Mass flow Controller of Different Ranges ( 0 -100 l/min, 0 -50 l/min, 0 -5 l/min, 0 -500 ml/min, 0 -50 ml/min, 0 -5 ml/min)	01 Set
2.	Digital Readout and control System for Mass flow controller	01 no
3.	High Precision Pressure cum vacuum gauge (Analog) (Master gauge)	01 No
4.	Multi Print Recorder	01 No
5.	Oil Sealed mechanical Vacuum Pump (5 to 21M <sup>3</sup> /hr)	01 No

The indigenous items to be procured by zonal office are listed in table -C

SI No	Table C. Name of the items to be procured through LCB
1.	19' Rack for mounting Analysers & Mass flow Controllers
2.	Noise less (Silent ) Air Compressor (250 Litres.mim) with regeneration dryer
3.	Gas cylinder s Holding Clamp and Belts for Cylinder and Trolley for Cylinder & other miscellaneous
4.	Certified Thermo Meter
5.	Advanced Computer
6.	Pure Gas Handling Chamber
7.	Sampling Pump (Handy sampler)
8.	Certified Standard Weight for analytical Balance
9.	Certified Filters for Spectrophotometers
10.	Multi Print Recorder

It is noted that since this office has not received sufficient items through ICB, the significant progress could not be achieved in this project. However, in recent period, this office has received many of the items except few . Therefore, it is proposed that Zonal Office shall initiate to procure all LCB items as mentioned table -C so that all the items will be in place and after the receipt of Oil Sealed mechanical Vacuum Pump (5 to 21M<sup>3</sup>/hr) through ICB may enable to go head for trial run of the ring test facility.