

**Central Pollution Control Board**  
Waste Management - II Division

F. No. B-29016(SC)/1/16/HWMD/

March 16, 2017

**Sub: Invitation of Quotations from Laboratories for conducting sampling and analysis of Dioxin-Furan and Total Organic Carbon (TOC) in Stack Emission and Loss on Ignition (LoI) and Total Organic Carbon (TOC) in residue - regarding**

1. CPCB invites quotations from NABL accredited Laboratories and Laboratories recognized under the Environment (Protection) Act, 1986, as per the format below, for conducting sampling and analysis of Dioxin-Furan and Total Organic Carbon (TOC) in Stack Emission and Loss on Ignition (LoI) & TOC in residue. The quotations shall be submitted in a sealed envelope as per following format;

S. No.	Parameters/Item	Method	Minimum Sampling Duration	Unit	To be quoted by Bidder	
					Sampling & Analysis method	Unit Cost (in Rs.) including tax, wherever applicable
1.	Sampling and analysis of Dioxins & Furans from stack emission	USEPA/EN	08 hours representative sample	Per sample per stack		
2.	Sampling and analysis of Total Organic Carbon (TOC) from stack emission		30 minutes representative sample	Per sample per stack		
3.	Loss on Ignition (LoI) in residue	USEPA or other method	-	Per sample		
4.	TOC in residue		-	Per sample		
5.	Transportation, Lodging & Boarding, etc. Charges for the Laboratory personnel for conducting the above *	-	-	Lump sum for all personnel of Laboratory		

*\*The charges shall include all kind of expenses that may incur to the Laboratory such as transportation, lodging & boarding etc. to its team of personnel to carry out the above.*

**Terms and Conditions:**

- (i) Stack emission monitoring may start from March 23, 2017 onwards in Delhi and results must be provided within twenty days of the sampling.
- (ii) No cost, other than the above, shall be paid.
- (iii) The Laboratory shall arrange travel ticket, hotel, vehicles etc. of their own.

*Conti..2/-*

- (iv) The samples for Dioxins/Furans will only be analyzed through Gas Chromatography/High-Resolution Mass Spectrometry (GC/HRMS). Further, during sampling & analysis of Dioxins/Furans:
    - (a) International QA/QC and analysis method USEPA/ German DIN method must be used;
    - (b) For QA/QC, isotopic standards must be used.
  - (v) All analytical Chromatogram for each of the samples analyzed for Dioxins/Furans must be submitted along with analysis report.
  - (vi) It is expected that the Laboratory may have to sample & analyze two samples (for each of the parameters viz. TOC and Dioxins/Furans) at three different locations at various occasions in Delhi. However, the same may vary. Analysis of residue sample may or may not be required.
2. The Quotation as per the above shall be submitted to the Additional Director & Head, Waste Management - II Division, Central Pollution Control Board, East Arjun Nagar, Shahdara, Delhi – 110 032, by post or email ([hwmd.cpcb@nic.in](mailto:hwmd.cpcb@nic.in)) not later than 4:00 pm of March 20, 2017.

**(Bharat K Sharma)**  
Addl. Director & Head  
WM-II Div.