



**INTERIM REPORT
ON
ACCREDITATION / RECOGNITION FOR
SOUTH ZONAL LABORATORY UNDER NABL
AND E (P) ACT (ONGOING)
AS PER P-II (15) OF AAP 2013-14**



**CENTRAL POLLUTION CONTROL BOARD
ZONAL OFFICE (SOUTH)
BANGALORE – 560 010**



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CONTENTS

SECTION I	BACK GROUND	3
SECTION II	ACTIVITIES CARRIED OUT	3
SECTION III	SCOPE OF ACCREDITATION	4
SECTION IV	APPROVAL OF COMPETENT AUTHORITY	4
SECTION V	ACTIVITIES YET TO BE COMPLETED	5
SECTION VI	CONCLUSION	5

Project -II ;SCHEME - 15: ACCREDITATION / RECOGNITION FOR SOUTH ZONAL LABORATORY UNDER NABL AND E (P) ACT (ONGOING)

I. BACK GROUND:

The recognition of the Zonal Laboratory of Zonal Office(South), Bangalore under the Environment (Protection) Act, 1986 got expired in December, 2010 and this could not be renewed due to the Office Memorandum of Ministry of Environment and Forest, Govt. of India, New Delhi dated 12th August, 2011. As per this memorandum, all environmental laboratories including State/Central Pollution Control Board Laboratories should have either ISO 17025 (NABL Accreditation) or ISO 9001 along with OHSAS 18001 (Occupational Health and Safety and Management System) before submission of application for consideration and hence the laboratory could not file application for E(P)A recognition. Then attempts were made for obtaining ISO 9001 and OHSAS 18001 certifications by engaging a consultant. As approval for engaging a consultant was not granted, this office decided to take on their own efforts to go for NABL accreditation. Then lot of efforts were made for the officials on learning the criteria for NABL and creating awareness among officials on importance of obtaining NABL accreditation.

II. ACTIVITIES CARRIED OUT:

- Two awareness and management meetings were conducted to highlight the importance of Laboratory Accreditation as per IS/ISO/IEC 17025 during July and November, 2013. It was emphasised in each meeting the need of each individual's involvement as it is a team work.
- Laboratory supervisors made presentation and practical demonstration on sampling techniques and analysis techniques for collecting reliable samples and testing. Also circular was issued to maintain QA/QC in the laboratory.
- Two meetings were conducted with laboratory officials to review the responsibility already assigned to the individual officials and finalize the scope on 13th September, 2013 and 4th December, 2013 respectively.
- The NABL training programme organised in CPCB during October 28-31, 2013 was attended by the Quality Manager and Deputy Quality Manager and accordingly the Quality Manual (QM) and Standard Operating Procedures (SOPs) were amended.
- Laboratory has participated two international PT one CPCB-PT Programmes in November, 2013 and December, 2013 and the performances were discussed.
- As regards to preparation of QM, SOPs, Test Methods (TMs) and Formats, the TMs and Formats are already prepared and drafts of QM and SOPs have been completed.
- The numbering of all instruments and preparation of work instructions has been completed partially.
- Finalization of scope parameters have been completed and given separately below.

- Procurement of most of the CRMs (80%) has been completed.
- The log books and registers are opened for all instruments and being maintained.
- Two computers were procured for maintaining of laboratory records.

III.SCOPE OF ACCREDITATION:

Sl. No	Product / Material of Test	Specific Test / Parameters Performed
1	Ambient Air	PM ₁₀ , SO ₂ , NO _x , NH ₃ , As, Ni and Pb.
2	Source Emission	PM, SO ₂ and NO _x .
3	Waste Water	pH, TSS, TDS, TS, Turbidity, Alkalinity, DO, COD, BOD, O&G, NO ₂ -N, NO ₃ -N, Phosphate, Chloride, Sulphate, Fluoride, NH ₃ -N, TKN, Total Hardness, Ca, Mg, Na, K, Cr ⁺⁶ , As, Ag, Au, B, Ba, Cu, Co, Cd, Cr, Fe, Hg, Mn, Ni, Pb, Sb, V and Zn.
4	Surface Water& Drinking Water	pH, TSS, TDS, TS, Turbidity, Alkalinity, DO, COD, BOD, O&G, NO ₂ -N, NO ₃ -N, Phosphate, Chloride, Sulphate, Fluoride, NH ₃ -N, TKN, Total Hardness, Ca, Mg Na, K, Cr ⁺⁶ , As, Ag, Au, B, Ba, Cu, Co, Cd, Cr, Fe, Hg, Mn, Ni, Pb, Sb, V and Zn.
5	Microbiology	Total Coliform, Faecal Coliform and Total Plate Count.

IV.APPROVAL OF COMPETENT AUTHORITY:

Training to the officials on NABL awareness programme and measurement of uncertainty is essential to NABL accreditation process. Hence, residential programme or in-house training was proposed through CETE / STQC, a Government of India Organisation, as given below:

Sl. No.	Topic of the Training	No. of officials to be nominated	Amount per Head, Rs.	Total Amount, Rs.
1	Laboratory Quality Management System & Internal Audit as per ISO/IEC 17025 (4 days programme)	4	7000 + Tax	28,000 + Tax
2	Measurement of uncertainty for chemical parameters	2	5000 + Tax	10,000 + Tax

The competent authority of Central Board approved the above proposal and it has been decided by the Zonal Officer to organise this programme in May, 2014.

V.ACTIVITIES YET TO BE COMPLETED:

Some of the major activities yet to be completed before filing of application to NABL are listed below:

- Calibration of instruments and Glassware
- Measurement of uncertainty
- Procurement of remaining CRMs (20%)
- Internal Audit
- Closing of NCs, if any
- Management Review

Mean time at the end of the financial year 2013-14, the competent authority of Central Board decided to go for ISO 9001:2008 and IS 18001:2007 for Zonal Office Laboratories by engaging a consultant through a limited tender process as these certifications are the essential pre-requisites to apply for the recognition of Zonal Office Laboratories under the E (P) Act, 1986 as per the MoEF Office Memorandum dt. 12th August, 2011. The NABL work may be slowed down due to the above work, but it has been decided, as far as possible, to carry out both the work simultaneously by giving priority to the former one.

VI.CONCLUSION:

Once the above activities completed in the financial year 2014-15, the filing of application to NABL will be progressed immediately.