



PC-1007

National Council for Cement and Building Materials
Interlaboratory Services
(India's First Accredited PT Services Provider)

NCB PROFICIENCY TESTING SCHEME ON FINE AGGREGATE
(MECHANICAL PARAMETERS): ILS/PT/108

PROTOCOL

1.0 PROFILE

1.1 Background

NCB is the apex body providing R&D and technical services in cement and allied building materials. In 2013, Interlaboratory Services (ILS) of NCB was granted accreditation as per ISO 17043:2010 for providing PT services on cement and building material. The present scope of accreditation in mechanical field covers: cement; fly ash; aggregate; mortar/concrete; tile (ceramic); burnt clay building brick; steel bar.

1.2 PT Scheme on Fine Aggregate

ILS is now launching PT scheme on mechanical testing of fine aggregate (ILS/PT/108). The study is being coordinated by Abhishek Agnihotri. The programme envisages testing of single homogenized sample of Fine aggregate as per Indian standard methods of testing in mechanical field. Around 30 laboratories are expected to participate. The registration for participation would be done on first-come-first-served basis. The scheme will be implemented as per ISO 17043:2010. The channels of communication will remain open through out the scheme implementation period with all the participants.

1.3 Salient Features of the Scheme

Each participating laboratory would be provided single sample for testing. Salient features of the scheme are as under:

- Simultaneous participation
- Sourcing of material
- Material homogenization and sample preparation
- Testing for homogeneity and statistical check of homogeneity
- Safe delivery of samples to participating laboratories
- Data analysis as per ISO 17043:2010 and ISO 13528:2015(E)
- Feedback of performance to participating laboratories
- Data confidentiality

All the PT activities will be coordinated by ILS programme of CQC centre. Material testing for initial checking, material homogenization and testing for homogeneity will be subcontracted by ILS to other laboratories of NCB. Activities like statistical check of homogeneity, data compilation, analysis of results and report preparation will not be subcontracted. Complete confidentiality will be observed in the implementation of the scheme.

2.0 TECHNICAL DETAILS

2.1 Material Selection, Homogenization and Preparation of PT Item

The material for preparing PT item will be acquired from a suitable source. The quality of the material will be checked for suitability. The material will be homogenized and evaluated statistically for homogeneity for preparation of PT item. The prepared & packed PT item/sample will be checked for stability.

2.2 Sample Packaging and Delivery

The PT item (test sample) would be packed properly and safely for dispatch to the participants. Each participating laboratory would be provided single test sample. Necessary instructions and data reporting sheets also will be provided. Replacement would be provided in case of damage or loss during transit.

2.3 Sample Testing

The scheme covers testing of homogenized sample provided by ILS as per IS specification, for the following test parameters at participants' laboratories.

| Parameter | IS Code* |
|----------------------------|-------------------------------|
| Sieve analysis (ROS 300µm) | 2386 (Part 1): 1963 (RA 2021) |
| Specific gravity | 2386 (Part 3): 1963 (RA 2021) |
| Water absorption | 2386 (Part 3): 1963 (RA 2021) |
| Bulk density (loose) | 2386 (Part 3): 1963 (RA 2021) |

**Latest IS codes to be followed*

The laboratories are required to ensure availability of calibrated equipment, maintain required environmental conditions and meet all IS requirements during testing. Conformance to the respective test procedures will have to be ensured.

2.4 Reporting of Results

The participating laboratories will be required to conduct the tests as required in the specification and report average result for each test for the sample, to the accuracy mentioned in the results reporting sheet; deviation, if any, will have to be reported. Test results would have to be sent to the coordinator through e-mail for quick transmission, followed by hard copy.

2.5 Analysis of Results

Received test results will be evaluated as per ISO 17043:2010 and ISO 13528:2015(E). Evaluation would be done for variation, for each test parameter and 'Z' score of laboratory performance calculated.

2.6 Statement of Confidentiality

All laboratories would be given code number, upon receipt of test results. Confidentiality of received data, analysis and feedback would be ensured. Identity (list) of participants will not be disclosed. However, it may be disclosed to NABL, if required.

2.7 Report

Report containing details of the scheme, evaluation, laboratory performance sheet would be prepared and provided to the participating laboratories. Copy of the report may be given to NABL, if required.

2.8 Appeal

Participants may appeal to NCB against the evaluation of their performance for the scheme.

2.9 Feedback

All the participating laboratories will be individually conveyed the status of their performance, with remarks.

3.0 REGISTRATION FOR PARTICIPATION

The laboratories having facilities for mechanical testing of fine aggregate can register by sending filled up Form 1 (enclosed) to NCB, for participation in the scheme.

4.0 TIME LINE

The last date for registration in the scheme is **31st July 2023**. The test sample would be dispatched to participants by **15th August 2023**. The study is scheduled to be completed by **30th September 2023**.

5.0 PARTICIPATION FEE

Rs. 12,000.00 (Rs. Twelve Thousand) plus GST @ 18%. Total Rs. 14,160.00 (Rs. Fourteen Thousand One Hundred and Sixty only).

6.0 POST-PROGRAMME SUPPORT

Laboratories willing to take assistance for improving their performance in the aftermath of the programme would receive support at the cost agreed upon.

Abhishek Agnihotri
(PT Coordinator)

Date: 03.07.2023

Contact Details:

Amit Trivedi

Head of Centre

Centre for Quality Management,

Standards and Calibration Services

National Council for Cement and Building Materials

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**National Council for Cement and Building Materials
Interlaboratory Services**

CONSENT FORM FOR PARTICIPATION IN PT SCHEME

**TITLE: NCB PROFICIENCY TESTING SCHEME ON FINE
AGGREGATE (MECHANICAL PARAMETERS): ILS/PT/108**

Name of the Laboratory.....

Address:

.....

Pin code:Telephone:

e-mail: GST No.:

Name of the Contact Person:

Designation: e-mail:

Telephone: Mobile:

Is your laboratory accredited with ISO 17025: YES NO

If, NO: Laboratory shall need to provide the traceability of the measurement equipment along with Form 1.

We are interested to participate in the above scheme.

The participation fee alongwith applicable taxes for the scheme is being made as per the following:

NOTE: Payment to be made before dispatch of the PT sample.

Date:

Authorized Signatory

Participation Fee : Rs. 12,000.00

GST @ 18% : Rs. 2,160.00

Total : Rs. 14,160.00

PAN No.: AAATN2477N; GST No. 06AAATN2477N1Z6

RTGS/NEFT: Saving Account No. (SBI): 37301477161, IFSC: SBIN0003794; Address: Cement Research Institute of India, Sector – 4, Faridabad, Haryana – 121004 **OR**

****SB Collect:** www.onlinesbi.com → SBI collect → Proceed → State of corporate/Institution: (All India) → Type of corporate/Institution: (Govt. Department) → National Council for Cement and Building Materials → Proficiency Testing → Submit.

Please forward scanned copy of payment details separately

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| Form 1 Date of Issue: 03.07.23 Revision: 00 |
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