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 NABL accreditation as per ISO 17043:2010 for providing PT services on cement and fly ash. 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 PPC
ILS is now launching PT scheme on mechanical testing of steel bar (ILS/PT/62). The study is being coordinated by Abhishek Agnihotri. The programme envisages testing of single homogenized sample of steel bar 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 throughout the scheme implementation period with all the participants.

1.3 Salient Features of the New Scheme
Each participating laboratory would be provided single sample for testing. Salient features of the scheme arc 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. 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, compilation and 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 samples for preparing PT items will be acquired from a suitable source. The quality of the material will be checked for suitability.

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.

<table>
<thead>
<tr>
<th>PT Item</th>
<th>Test Parameter</th>
<th>IS Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel bar (16 mm)</td>
<td>Mass per metre</td>
<td>IS 1786:2008 &amp; IS 1608:2005 (RA 2011)</td>
</tr>
<tr>
<td></td>
<td>Yield stress</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elongation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tensile strength</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The participating laboratories are required to ensure availability of trained personnel, calibrated equipment and maintain required environmental conditions 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 testing of steel bar 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 2020. The test sample would be dispatched to participants by 15th August 2020. The study is scheduled to be completed by 30th September 2020.

5.0 PARTICIPATION FEE
Rs. 20,000.00 (Rs. Twenty Thousand) plus GST @ 18%. Total Rs. 23,600.00 (Rs. Twenty Three Thousand Six Hundred 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: 13.07.2020

Contact Details of PT Coordinator:
Abhishek Agnihotri  Assistant Manager
Centre for Quality Management,
Standards and Calibration Services
National Council for Cement and Building Materials
34 Km Stone, Delhi-Mathura Road (NH-2)
Ballabgarh – 121004 (Haryana)
Phone No: 0129-4192239/305
E-mail: ncb.cqc@gmail.com
Fax: 0129-2242100/2246175
National Council for Cement and Building Materials
Interlaboratory Services

CONSENT FORM FOR PARTICIPATION IN PT SCHEME

TITLE: NCB PROFICIENCY TESTING SCHEME ON STEEL BAR
(MECHANICAL PARAMETERS): ILS/PT/62

Name of the Laboratory: 

Address: 

Pin code: 

Telephone: e-mail: 

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 along with applicable taxes for the scheme is being made as per the following:

**Payment details:** SB Collect** ----------------------------- dated -------------

for Rs. ------------------------ GST No. -----------------------------

Date: 

Authorized Signatory

<table>
<thead>
<tr>
<th>Participation Fee</th>
<th>Rs. 20,000.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>GST @ 18%</td>
<td>Rs. 3,600.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>Rs. 23,600.00</td>
</tr>
</tbody>
</table>

PAN No.: AAATN2477N; GST No. 06AAATN2477N1Z6

**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

Form 1
Date of Issue: 13.07.20
Revision: 00