**China NIL Research Center for Proficiency Testing**



**China NIL Proficiency Testing Schemes (2008) (Chemical Analysis & Mechanical Testing)**

Dear Sir or Madam:

I take great pleasure in informing you that China NIL will focus on providing some international proficiency testing schemes in 2008, which are listed in the following Table 1(Chemical Analysis) and Table 2 (Mechanical Testing). Furthermore, many perennial proficiency testing schemes will also be provided according to the requirement of internal and international laboratories. (See NIL Website [http://english.nil.org.cn](http://english.nil.org.cn/)).

I hope that the information in this notification are useful for you and kindly ask you to distribute it to any testing laboratory involved in your country.

**Table 1 Chemical Analysis of metals & raw material**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial No.** | **Title** | **Test items** | **Schedule** | **Fees**  **(US Dollar)** |
| \* NIL PT-0143 | Determination of carbon, silicon, manganese, phosphorus and sulphur contents in stainless steel | C, Si, Mn, P, S | Feb.~ Nov., 2008 | 325 |
| \* NILPT-0144 | Determination of chromium, nickel and titanium contents in stainless steel | Cr, Ni, Ti | Feb.~ Nov., 2008 | 325 |
| \* NILPT-0145 | Determination of carbon, silicon, manganese, phosphorus and sulphur contents in low alloy steel | C, Si, Mn, P, S | Feb.~ Nov., 2008 | 325 |
| \* NILPT-0146 | Determination of chromium, nickel and copper contents in low alloy steel | Cr, Ni, Cu | Feb.~ Nov., 2008 | 325 |
| \* NIL PT-0147 | Determination of vanadium, titanium and niobium contents in microalloy steel | V, Ti, Nb | Feb.~ Nov., 2008 | 325 |
| NIL PT-0148 | Determination of vanadium, silicon, manganese and  Phosphorus contents in ferrovanadium | V, Si, Mn, P | Feb.~ Nov., 2008 | 325 |
| NIL PT-0149 | Determination of titanium, silicon,manganese and  Phosphorus contents in ferrotitanium | Ti, Si, Mn, P | Feb.~ Nov., 2008 | 325 |
| NIL PT-0150 | Determination of TFe, SiO2, Al2O3 and manganese contents in iron ore | TFe, SiO2, Al2O3 ,Mn | Feb.~ Nov., 2008 | 325 |
| NIL PT-0151 | Determination of CaO, MgO, sulphur and phosphorus contents in iron ore | CaO, MgO, S, P | Feb.~ Nov., 2008 | 325 |
| NIL PT-0152 | Determination of SiO2, CaO, MgO,Fe2O3 and Al2O3 in silica refractory | SiO2, CaO, MgO, Fe2O3, Al2O3 | Feb.~ Nov., 2008 | 325 |
| NIL PT-0153 | Determination of SiO2, Fe2O3, Al2O3, CaO and MgO in magnesia refractory | SiO2,Fe2O3,Al2O3, CaO, MgO | Feb.~ Nov., 2008 | 325 |
| NIL PT-0154 | Determination of SiO2, CaO, MgO and Al2O3 in blast-furnace slag | SiO2,CaO,MgO,Al2O3 | Feb.~ Nov., 2008 | 325 |
| NIL PT-0155 | Determination of TFe, MnO, sulphur and phosphorus contents in blast-furnace slag | TFe, MnO, S, P | Feb.~ Nov., 2008 | 325 |
| NIL PT-0162 | Determination of silicon, manganese, magnesium, copper and ferrum contents in architectural aluminum alloy | Si, Mn, Mg, Cu, Fe | Feb.~ Nov., 2008 | 325 |
| NIL PT-0163 | Determination of copper, aurum, argentum, sulphur and arsenic contents in copper concentrates | Cu, Au, Ag, S, As | Feb.~ Nov., 2008 | 325 |
| NILPT-0176 | Determination of plumbum, cadmium contents in metallic zinc | Pb, Cd | Feb.~ Nov., 2008 | 325 |

\* **Two kind of samples (discs and chips) shall be prepared for these schemes**

**Table 2 Mechanical testing of metals**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Title** |  | **Test items** | **Schedule** | **Fees**  **(US Dollar)** |
| \*NIL PT-0169 | Brinell hardness test for metallic materials | HBW 5/750 | | Feb.~ Nov., 2007 | 450 |
| \*NIL PT-0170 | Vickers hardness test for metallic materials | HV0.2 |  | Feb.~ Nov., 2007 | 450 |
| \*NIL PT-0171 | Rockwell hardness test for metallic materials | HRC |  | Feb.~ Nov., 2007 | 450 |
| \*NIL PT-0172 | Room temperature tensile test for metallic materials | Rm, ReL, A, Z  (testing machine 100kN ～  1000kN) | | Feb.~ Nov., 2007 | 500 |
| \*NIL PT-0173 | Room temperature tensile test for metallic materials | Rm, ReL, A, Z  (testing machine 20kN ～  50kN) | | Feb.~ Nov., 2007 | 500 |
| \*NIL PT-0174 | Charpy impact test for metallic materials | H, UH (Energy level  70~140J, Striker R=2mm） | | Feb.~ Nov., 2007 | 500 |

As a professional PT provider, NIL has been accredited by China National Accreditation Service Conformity Assessment (CNAS), and all PT schemes provided by NIL are operated in compliance with ISO/IEC Guide 43:1997 Part 1 and ILAC Guide G13 "Guidelines for the Requirements of the Providers of Proficiency Testing Schemes", and open to laboratories anywhere in the world.

**SOME USEFUL INFORMATION OF THE SCHEMES:**

**\* Test samples (or specimens)**

After NIL receive the “Registration Form for PT Schemes” from the participants, Test samples shall be distributed along with “INSTRUCTIONS TO PARTICIPANTS”, “SAMPLES RECEIPT FORM” and “RESULT SHEET” to the laboratories participating in the scheme. In the proficiency testing schemes the samples are prepared and tested for homogeneity by the Standard Material Research Center of CISRI (Central Iron & Steel Research Institute).

**\* Testing method**

The samples will be tested by the participant's preferred methods, which are generally used for providing formal reports. However it is preferable to use international or national consensus standard methods. If a standard method is used, please provide its title name and serial number.

**\* Registration fees**

Registration fees should be paid as soon as possible after you submit “Registration Form for PT Schemes”. A formal invoice will be forwarded to participating laboratory together with the samples.

**\* Schedule**

¾ Dispatch of the notification and registration form for PT schemes in *February and April 2008*;

¾ Return of the Registration Form for PT Schemes by *May 2008*(please use E-mail or Fax);

¾ Sample distribution in *May ~July 2008*;

¾ Reporting tested results to NIL approximately 2 weeks after sample receipt

¾ The statistical summary reports will be published in *October~ November 2008.*

Any information with which you may favor us will be much appreciated, and we earnestly await your order.

Yours sincerely



**WANG Haizhou**

**President of China NIL Research Center for Proficiency Testing**

**China NIL Research Center for Proficiency Testing**



**Registration Form for PT Schemes**

If your laboratory would like to participate in the NIL PT Schemes in 2008, please tick for ordering and submit

your involved details below:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NIL PT-0143** |  | **NIL PT-0144** |  | **NIL PT-0145** |  | **NIL PT-0146** |
| **NIL PT-0147** |  | **NIL PT-0148** |  | **NIL PT-0149** |  | **NIL PT-0150** |
| **NIL PT-0151** |  | **NIL PT-0152** |  | **NIL PT-0153** |  | **NIL PT-0154** |
| **NIL PT-0155** |  | **NIL PT-0162** |  | **NIL PT-0163** |  | **NIL PT-0176** |
| **NIL PT-0169** |  | **NIL PT-0170** |  | **NIL PT-0171** |  | **NIL PT-0172** |
| **NIL PT-0173** |  | **NIL PT-0174** |  |  |  |  |

Name of Laboratory:

Postal Address & Zip Code:

Contact Person: Country:

E-mail: \_

Phone: ; Fax: \_

***Please return this form as soon as possible by e-mail or fax; no later than May 9th, 2008***

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