

## Improvement of Dictionary 3 (Institutes) for efficient compilation

(N. Otsuka, 2023-04-18, Memo CP-D/1080)

The presentation by Vidya Devi and Jagjit Singh in the EXFOR workshop and my report on INST-FINDER (Memo CP-D/1078) show improvement of dictionary 3 expansions could help automation of institute coding. Based on my experience with INST-FINDER development, I summarized possible (and not comprehensive) improvement by (1) replacement of expansion, (2) addition of new institute codes, and (3) deletion of a few institute codes used seldom.

### 1. Replacements of expansions include

- addition of the city name
- Addition of abbreviation (e.g., BARC) or adoption of the abbreviation as the primary institute name (e.g., RIKEN instead of “Institute of Physical and Chemical Research).
- Replacement of an abbreviation with its full spelling when use of the abbreviation is not very typical (e.g., “Technische” instead of “Tech.”).
- unification of the language within the country (e.g., Italian/German rather than English for the names of the Italian/German universities).

For the last item, English translation could be more convenient for expansions of some countries (e.g., “Institute of Physics and Power Engineering (IPPE)” is more convenient than “Fiziko-Energeticheskii Inst., Obninsk”? Expansions are sometimes in English but sometimes in Russian for the Russian institutes defined in Dictionary 3.)

The proposed replacements are listed in **Appendix** of this memo.

### 2. Addition of institutes codes are proposed for the following frequently occurring institutes:

#### Dictionary 3 (Institutes)

1USACMG Central Michigan University, Mt.Pleasant, MI  
 2ITYUPG Universita degli Studi di Perugia + INFN Perugia  
 2JPNNAO National Astronomical Observatory of Japan, Mitaka  
 3KORSKK Sungkyunkwan University, Suwon

### 3. Deletion of institutes codes are proposed for the following institutes. These two codes are used only two entries (31514 and A0456) and their retransmissions are foreseen to replace these codes with 3INDIND:

#### Dictionary 3 (Institutes)

3INDJCB Janta College, Bakewar  
 3INDTHO Thoubal College, Thouba

### 4. Deletion of obsolete codes starting from 2JAP is proposed except for 2JAPJAE, 2JAPKTO, 2JAPTOH, 2JAP TOK and 2JAPTIT, which are still used in 20763, 20793, 20845, 20847, 20851, 20853, 20871 and 20897. The other 2JAP codes are not used in EXFOR and CINDA anymore. See Memo 4C-2/120 for more details about replacement of 2JAP with 2JPN.

## Appendix: Typical combinations of predicted and correct codes

<b>Code</b>	<b>Expansion (current)</b>	<b>Expansion (proposed)</b>
1USACLU	Colorado University, Boulder, CO	University of Colorado, Boulder, CO
2BLGMOL	C.E.N., Mol	SCK CEN (Belgian Nuclear Research Centre), Mol
2GERJUL	Forschungszentrum Juelich	Forschungszentrum Juelich, Juelich
2GERKLN	Universitaet zu Koeln	Universitaet zu Koeln, Koeln
2GERPTB	Physikal. Techn. Bundesanst., Braunschweig	Physikalisch-Technische Bundesanstalt, Braunschweig
2GERTHB	Tech.Hochschule, Braunschweig	Technische Universitaet Braunschweig
2GERTHD	Tech.Universitaet, Darmstadt	Technische Universitaet Darmstadt
2GRCTUA	Nat. Techn. Univ. of Athens	National Technical Univ. of Athens, Athens
2ITYCAG	Univ. of Cagliari	Universita degli Studi di Cagliari + INFN Cagliari
2ITYCAM	Universita degli Studi di Camerino	Universita degli Studi di Camerino, Camerino
2ITYCIS	C.I.S.E., Milan	Centro Informazioni Studi ed Esperienze (CISE), Milan
2ITYFRA	INFN Laboratori Nazionali di Frascati	INFN Laboratori Nazionali di Frascati, Frascati
2ITYGVA	U.+INFN., Genova	Universita degli Studi di Genova + INFN Genova
2ITYLEC	Univ.degli Studi Lecce + INFN Lecce	Universita degli Studi Lecce + INFN Lecce
2ITYLGS	Lab.Naz.del Gran Sasso, Ist.Naz.di Fis.Nucl.,Assergi	LINFN Laboratori Nazionali del Gran Sasso, Assergi
2ITYMES	Univ.of Messina	Universita degli Studi di Messina, Messina
2ITYPAV	Univ.degli Studi di Pavia + INFN Pavia	Universita degli Studi di Pavia + INFN Pavia
2ITYUBO	Bologna, Univ. + Ist. Naz. di Fis. Nucl.	Universita di Bologna + INFN Bologna
2JPNHYO	Hyogo Agricult.Univ., Sasayama	Hyogo Agriculture Univ., Sasayama
2JPNIPC	Inst.of Physical and Chemical Res. (RIKEN), Wako	RIKEN (Inst. of Physical and Chemical Research), Wako
2JPNMZK	Miyazaki Univ., Miyazaki	Univ. of Miyazaki, Miyazaki
2SWDSWR	Studsvik Science Research Laboratory	Studsvik Science Research Laboratory, Nykoeping
2SWDUPP	Univ. of Uppsala	Uppsala Univ., Uppsala
2SWTBAS	Basel Univ.	University of Basel, Basel
2ZZZCER	CERN, Geneva	European Org. for Nuclear Research (CERN), Geneva
3CPRHST	Chinese Univ. of Sci. and Tech., Hefei	Univ. of Science and Technology of China, Hefei
3HKGHKG	Hongkong	Hong Kong
3HKGHKU	Chinese Univ.of Hongkong	Chinese Univ. of Hong Kong
3INDCCT	Calicut University, Calicut	University of Calicut, Calicut
3INDTAT	Tata Institute, Mumbai	Tata Institute of Fundamental Research, Mumbai

3INDTRM	Bhabha Atomic Research Centre, Trombay, Mumbai	Bhabha Atomic Research Centre (BARC), Trombay, Mumbai
3POLIFJ	Niewodniczanski Instytut Fizyki Jadrowej, Krakow	Niewodniczanski Institute of Nuclear Physics, Krakow
3POLWWA	Warszawa, University	Univ. of Warsaw, Warsaw
3RUMBUC	Inst. de Fiz. si Ing. Nucl. Horia Hulubei, Bucharest	Horia Hulubei National Institute (IFIN- HH), Magurele
3SAFITH	iThemba LABS, Somerset West	iThemba Laboratories, Somerset West
3SAFSTL	Univ. of Stellenbosch	Stellenbosch Univ., Matieland
3SAFUWC	Univ. of Western Cape, Bellville, Cape Town	Univ. of the Western Cape, Bellville
3SAFWIT	Univ.of Witwatersrand, Johannesburg	Univ. of the Witwatersrand, Johannesburg
3VN STH	Institute of Nuclear Science and Technique, Hanoi	Institute for Nuclear Science and Technology, Hanoi
3ZZZIAE	IAEA, Vienna	International Atomic Energy Agency (IAEA), Vienna
4ARMJER	Inst. Fiziki Armen. A.N., Jerevan	A.I. Alikhanyan National Sci. Lab. (YerPhi), Yerevan
4ARMJSU	Jerevan State Univ., Jerevan	Yerevan State Univ., Yerevan
4MLDAPI	Appl.Physics Inst.,Mold.Acad.Sci.,Chisinau	Inst. of Applied Physics, Chisinau