

**P- Provisional. Updated on 13-02-2020

S. No	Date of Receiving	Expected date of availability	BND Number	Name	Division	Name of Material	Purpose
1.	02-01-2018	01-01-2019	BND 2005-P	Dr V. N. Singh and Team	DU#5.01	Si/Pt nanorods	Magnification calibration Standard for TEM/SEM
2.	08-01-2018	01-05-2018	BND 1001-P	Dr S Swarupa Tripathy and Team	DU#5.03	Aqueous Fluoride Standard Solution	Primary calibration standard for quantitative determination of fluoride
3.	08-01-2018	01-05-2018	BND 1002-P	Dr S Swarupa Tripathy and Team	DU#5.03	Aqueous Copper Standard Solution	Primary calibration standard for quantitative determination of copper
4.	15-02-2018	01-08-2018	BND 2001-P	Dr N Vijayan and Team	DU#5.01	Alpha Alumina (Al ₂ O ₃)	Powder X-ray diffraction reference
5.	15-02-2018	01-08-2018	BND 2002-P	Dr N Vijayan and Team	DU#5.01	Alpha Quartz (SiO ₂)	Powder X-ray diffraction reference
6.	15-02-2018	01-08-2018	BND 2003-P	Dr N Vijayan and Team	DU#5.01	Mullite (Al ₆ Si ₂ O ₁₃)	Powder X-ray diffraction reference
7.	09-04-2018	30-05-2018	BND 2006-P	Dr. R. P. Pant and Team	DU#5.01	Gold on Copper Grid	Magnification calibration Standard for TEM
8.	02-05-2018	15-05-2018	BND 3001-P	Dr S Swarupa Tripathy and Team	D#5.03	Contaminants in Rice Flour Standards	Toxic elements in Rice Flour for calibration of equipment
9.	01-06-2018	30-12-2018	BND 2901-P	Dr. S. P. Singh and Team	DU#5.04	Gold Nano-Particle (15nm particle size)	Particle size standard
10.	01-08-2018	30-06-2019	BND 2007-P	Dr Sudhir Husale and Team	D#2.03	Opto mMicro Ruler	Ruler Au/Ti on Si/SiO ₂ substrate to calibrate optical microscopes, stereoscopes, scale rulers etc

11.	01-08-2018	30-06-2019	BND 2008-P	Dr Sudhir Husale and Team	D#2.03	TransMicro Ruler	Ruler Au/Ti on ITO substrate to calibrate optical microscopes, stereoscopes, scale rulers etc
12.	01-08-2018	30-06-2019	BND 2009-P	Dr Sudhir Husale and Team	D#2.03	SemCali Array	An array Au/Ti squares to calibrate Sem/FESEM
13.	01-08-2018	30-06-2019	BND 2010-P	Dr Sudhir Husale and Team	D#2.03	Nano Squ & Gaps	Nanosquares (Pt or W) and Nanogaps fabricated on carbon coated TEM grid to calibrate SEM and FESEM
14.	01-08-2018	30-06-2019	BND 2011-P	Dr Sudhir Husale and Team	D#2.03	SEM Res Test Sample	Au nano islands on carbon tape or Si/Sio ₂ substrate for magnification and resolution test of SEM
15.	07-02-2019	04-10-2019	BND 2012-P	Dr S. K. Dubey and Team	D#2.03	Body/Tissue equivalent liquid 900MHz	The body/ tissue equivalent liquids are useful for SAR value assessments for various wireless devices and further estimation of their impact on humans. Ach liquid behaves at par with human body electric properties like permittivity, loss and conductivity at said frequency.
16.	07-02-2019	04-10-2019	BND 2013-P	Dr S. K. Dubey and Team	D#2.03	Body/Tissue equivalent liquid 1800MHz	The body/ tissue equivalent liquids are useful for SAR value assessments for various wireless devices and further estimation of their impact on humans. Ach liquid behaves at par with human body electric properties like permittivity, loss and conductivity at said frequency.

17.	07-02-2019	04-10-2019	BND 2014-P	Dr S. K. Dubey and Team	D#2.03	Body/Tissue equivalent liquid 2100MHz	The body/ tissue equivalent liquids are useful for SAR value assessments for various wireless devices and further estimation of their impact on humans. Ach liquid behaves at par with human body electric properties like permittivity, loss and conductivity at said frequency.
18.	07-02-2019	04-10-2019	BND 2015-P	Dr S. K. Dubey and Team	D#2.03	Body/Tissue equivalent liquid 2300MHz	The body/ tissue equivalent liquids are useful for SAR value assessments for various wireless devices and further estimation of their impact on humans. Ach liquid behaves at par with human body electric properties like permittivity, loss and conductivity at said frequency.
19.	07-02-2019	04-10-2019	BND 2016-P	Dr S. K. Dubey and Team	D#2.03	Body/Tissue equivalent liquid 2450MHz	The body/ tissue equivalent liquids are useful for SAR value assessments for various wireless devices and further estimation of their impact on humans. Ach liquid behaves at par with human body electric properties like permittivity, loss and conductivity at said frequency.
20.	07-02-2019	04-10-2019	BND 2017-P	Dr S. K. Dubey and Team	D#2.03	Body/Tissue equivalent liquid 5800MHz	The body/ tissue equivalent liquids are useful for SAR value assessments for various wireless devices and further estimation of their impact on humans. Ach liquid

							behaves at par with human body electric properties like permittivity, loss and conductivity at said frequency.
21.	27-05-2019	27-03-2020	BND 2018-P	Dr Asit Patra and Team	D#4.01	Polystyrene	For GPC instrument calibration to defined the polymers in tern Mw, PDI etc
22.	30-05-2019	31-03-2020	BND 2019-P	Dr Sanjay Kumar Srivastava and Team	D#4.02	Silicon Dioxide Film Thickness Standard	Calibration of Optical instruments such as single wavelength and spectroscopic ellipsometers and reflectometers for thickness
23.	30-05-2019	31-03-2020	BND 2020-P	Dr Pratap Pathi and Team	D#4.02	Holmium Oxide Glass (Film) wavelength standard	calibration of spectrophotometers
24.	31-05-2019	31-12-2020	BND 2021-P	Dr Pallavi Kushwaha and Team	D#5.04	Potassium Dichromate Solution	calibration of absorbance scale in UV/Vis spectrophotometer
25.	31-05-2019	31-03-2021	BND 2022-P	Dr Pallavi Kushwaha and Team	D#5.04	Holmium oxide solution	reference material for validating the wavelength scale of UV/Vis spectrophotometer
26.	31-05-2019	31-03-2021	BND 2902-P	Dr S. P. Singh and Team	D#5.04	ZnO nanoparticles (4-6 nmsize, monodispersed solution)	particle size calibration for electron microscopy
27.	31-05-2019	31-12-2020	BND 2903-P	Dr Pallavi Kushwaha and Team	D#5.04	Silica Nanoparticles (300 nm size) powder	calibration of PM 2.5 and PM 10
28.	31-05-2019	31-03-2020	BND 2023-P	Dr Kiran M Subhedar and Team	D#4.04	Cyclohexane	Wave number calibrator for Raman Spectrometer
29.	03-01-2020	31-09-2021	BND 3001-P	Dr Rachna Kumar and Team	D#4.01	Honey	Standard for Honey

30.	16-01-2020	31-12-2021	BND 2024-P	Dr N Vijayan and Team	D#5.01	Silicon Powder	XRD line position and shape
31.	16-01-2020	31-12-2022	BND 2025-P	Dr N Vijayan and Team	D#5.01	LaB6 Powder	XRD line shape and Intensity