



Bhartiya Nirdeshak Dravya (BND®)



S. No.	BND Number	BND Name	Purpose	Price (INR)/Unit *Excluding GST	Quantity/ Volume	Available for purchase at
1	BND 4201	High Purity Gold Reference Standard	4N Purity of Gold			http://igmmumbai.spmcil.com/Interface/contactUS.aspx?menu=1
2	BND 2004	Polystyrene	FTIR instrument calibration	15,000/- per sample	Free Standing film	http://www.nplindia.in/information-contact-cfct
3	BND 5102	Graphitized Petroleum Coke (GPC)	Coke standard for calibration of instruments	15,600/- per Btl.	50 g/Btl.	http://www.nplindia.in/information-contact-cfct
4	BND 6001	Nitrogen (N ₂) with minor Impurities (THC ≤ 0.05 mmol/mol, CO ≤ 1 mmol/mol, CO ₂ ≤ 10 mmol/mol, Oxygen ≤ 2 mmol/mol, NO _x ≤ 0.02 mmol/mol, N ₂ O ≤ 0.02 mmol/mol)	These Standards are be used for the calibration of Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.5 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct
5	BND 6002	Synthetic air with minor Impurities (THC ≤ 0.05 mmol/mol, CO ≤ 1	These Standards are be used for the calibration of Analytical	1.2 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct

		mmol/mol, CO ₂ ≤ 10 mmol/mol, NO _x ≤ 0.02 mmol/mol, N ₂ O ≤ 0.02 mmol/mol)	Instruments, Gas Analyzers and Emission Monitoring Instruments			ation-contact- cfct
6	BND 6003	Primary Gas Mixture of CO in Nitrogen Gas (5 µmol/mol)	These Standards are be used for the calibrationof Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.3 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.npl india.in/inform ation-contact- cfct
7	BND 6004	Primary Gas Mixture of CO in Nitrogen Gas (50 µmol/mol)	These Standards are be used for the calibrationof Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.3 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.npl india.in/inform ation-contact- cfct
8	BND 6005	Primary Gas Mixture of CO in Nitrogen Gas (100 µmol/mol)	These Standards are be used for the calibrationof Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.3 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.npl india.in/inform ation-contact- cfct
9	BND 6006	Primary Gas Mixture of CO in Nitrogen Gas (480 µmol/mol)	These Standards are be used for the calibrationof Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.3 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.npl india.in/inform ation-contact- cfct
10	BND 6007	Primary Gas Mixture of CO ₂ in Nitrogen Gas (13% mol/mol)	These Standards are be used for the calibrationof Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.2 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.npl india.in/inform ation-contact- cfct
11	BND 6008	Primary Gas Mixture of CO ₂ in Nitrogen Gas (2.7% mol/mol)	These Standards are be used for the calibration of Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.2 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.npl india.in/inform ation-contact- cfct

12	BND 6009	Primary Gas Mixture of CO ₂ in Nitrogen Gas (1% mol/mol)	These Standards are be used for the calibration of Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.2 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct
13	BND 6010	Primary Gas Mixture of CO ₂ in Synthetic Air (380 µmol/mol)	These Standards are be used for the calibration of Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.5 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct
14	BND 6011	Primary Gas Mixture of CO ₂ in Synthetic Air (480 µmol/mol)	These Standards are be used for the calibration of Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.5 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct
15	BND 6012	Primary Gas Mixture of CO ₂ in Synthetc Air (800 µmol/mol)	These Standards are be used for the calibration of Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.5 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct
16	BND 6013	Primary Gas Mixture of CH ₄ in Nitrogen (2 µmol/mol)	These Standards are be used for the calibration of Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.2 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct
17	BND 6014	Primary Gas Mixture of CH ₄ in Nitrogen (10 µmol/mol)	These Standards are be used for the calibration of Analytical Instruments, Gas Analyzers and Emission Monitoring Instruments	1.2 Lakhs /cylinder	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct
18	BND 6015	Primary Reference Gas Mixture Standard CH ₄ (Methane) in Nitrogen gas (2.50% mol/mol) in 10 ltr Aluminium Cylinder filled at 120 bar. (2.5% mol/mol)	Primary reference gas mixture	Available soon	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct

19	BND 6016	Primary Reference Gas Mixture Standard NO (Nitric Oxide) in Nitrogen gas (50 micro mol/mol) in 10 ltr Aluminium Cylinder filled at 120 bar. - (50 mmol/mol)	Primary reference gas mixture	Available soon	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct
20	BND 6017	Primary Reference Gas Mixture Standard NO (Nitric Oxide) in Nitrogen gas (100 micro mol/mol) in 10 ltr Aluminium Cylinder filled at 120 bar. - (100 mmol/mol)	Primary reference gas mixture	Available soon	10 litre Al cylinders filled at 120 Bar	http://www.nplindia.in/information-contact-cfct
21	BND 2001	α -Alumina Powder	Use as an internal standard for intensity calibration for powder X-ray diffraction	Available soon	Available soon	http://www.nplindia.in/information-contact-cfct



Bhartiya Nirdeshak Dravya (BND®) (In collaboration with NCB, Ballabhgarh)



S. No.	BND Number	BND Name	Purpose	Price per BND	Available and purchase at / BND Price and other details
1	BND 5051	Ordinary Portland Cement	Proficiency evaluation of analyst evaluation and comparison of various test methods and calibration of equipment for analysing minor constituents for analysis of Ordinary Portland Cement and material of similar matrix	INR 9600.00 USD 255	https://www.ncbindia.com/contact-us.php
2	BND 5052A	Portland Pozzolana Cement	Proficiency evaluation of analyst, evaluation and comparison of various test methods and calibration of equipment for analysing alkalis for analysis of Portland Pozzolana Cement and material of similar matrix	INR. 9600.00 USD 255	https://www.ncbindia.com/contact-us.php
3	BND 5054	Fly Ash	Proficiency evaluation of analyst, evaluation and comparison of various test methods and calibration of equipment for analysing alkalis for analysis of Fly Ash	INR 9600.00 USD 255	https://www.ncbindia.com/contact-us.php
4	BND 5001A	Ordinary Portland Cement	Calibration of Blain Air Permeability Apparatus	INR 5500.00 USD 150	https://www.ncbindia.com/contact-us.php
5	BND 5002	Portland Pozzolana Cement	Calibration of Blain Air Permeability Apparatus	INR 5500.00 USD 150	https://www.ncbindia.com/contact-us.php

6	BND 5003	Portland Slag Cement	Calibration of Blain Air Permeability Apparatus	INR 5500.00 USD 150	https://www.ncbindia.com/contact-us.php
7	BND 5004	Fly Ash	Calibration of Blain Air Permeability Apparatus	INR 5500.00 USD 150	https://www.ncbindia.com/contact-us.php
8	BND 5006	Composite Cement	Calibration of Blain Air Permeability Apparatus	INR 5500.00 USD 150	https://www.ncbindia.com/contact-us.php
9	BND 5007	White Portland cement	Calibration of Blain Air Permeability Apparatus	INR 6600.00 USD 180	https://www.ncbindia.com/contact-us.php
10	BND 5011A	Ordinary Portland Cement	Calibration of Blain Air Permeability Apparatus	INR 5500.00 USD 150	https://www.ncbindia.com/contact-us.php
11	BND 5021	Ordinary Portland Cement	Calibration of Blain Air Permeability Apparatus	INR 5500.00 USD 150	https://www.ncbindia.com/contact-us.php
12	BND 5091	Coal Fuel Standard	Primary standard for calibration of instruments and validation of method for the characterization of the measurand for the analysis of coal	Available soon	https://www.ncbindia.com/contact-us.php



Indian
CSIR - NATIONAL PHYSICAL LABORATORY - NMI OF INDIA
Bharatiya Nirdeshak Dravya



Bhartiya Nirdeshak Dravya (BND®)
(In collaboration with AASHVI Technology LLP,
Ahmedabad)



S. No.	BND Number	BND Name	Purpose	Price per BND	Available and purchase at / BND Price and other details
1.	BND 1003	Copper Standard Solution	Primary calibration standard for the quantitative determination of copper, calibration of instruments and validation of method for the quantification/ characterization of measurand.	INR 2000.00	https://aashvitechnology.com/place-order/
2.	BND 1017	Potassium Dichromate	primary titrimetric standard for the standardization of volumetric standard solutions, calibration of equipment and validation of standard methods	INR 3200.00	https://aashvitechnology.com/place-order/
3.	BND 1005	pH Buffer Solution 4.00	calibration standard for calibration of pH instruments and validation of method for determination of the pH value	INR 1600.00	https://aashvitechnology.com/place-order/
4.	BND 1006	pH Buffer Solution 7.00	calibration standard for calibration of pH instruments and validation of method for determination of the pH value	INR 1600.00	https://aashvitechnology.com/place-order/

5.	BND 1007	pH Buffer Solution 9.00	calibration standard for calibration of pH instruments and validation of method for determination of the pH value	INR 1600.00	https://aashvitechnology.com/place-order/
6.	BND 1004	Nickel Standard Solution	primary calibration standard for the quantitative determination of Nickel	INR 2000.00	https://aashvitechnology.com/place-order/
7.	BND 1010	Lead Standard Solution	primary calibration standard for the quantitative determination of Lead	INR 2200.00	https://aashvitechnology.com/place-order/
8.	BND 1013	Cadmium Standard Solution	primary calibration standard for the quantitative determination of Cadmium	INR 2100.00	https://aashvitechnology.com/place-order/
9.	BND 1015	Zinc Standard Solution	primary calibration standard for the quantitative determination of Zinc	INR 2100.00	https://aashvitechnology.com/place-order/
10.	BND 1016	Potassium Hydrogen Phthalate	primary titrimetric standard for the standardization of volumetric standard solutions and validation of standard methods	INR 3800.00	https://aashvitechnology.com/place-order/
11.	BND 1018	Sodium Chloride	Primary standard for the standardization of titrimetric and volumetric standard solution	INR 3800.00	https://aashvitechnology.com/place-order/
12.	BND 1021	TDS Standard Solution	Gravimetric standard for the validation of standard methods and calibration	INR 1600.00	https://aashvitechnology.com/place-order/
13.	BND 1011	Arsenic Standard Solution	primary calibration standard for the quantitative determination of Arsenic	Available soon	https://aashvitechnology.com/place-order/
14.	BND 1012	Mercury Standard Solution	Primary calibration standard for the quantitative determination of Mercury	Available soon	https://aashvitechnology.com/place-order/
15.	BND 1019	Iron Standard Solution	Primary calibration standard for the quantitative determination of Iron	Available soon	https://aashvitechnology.com/place-order/
16.	BND 1023	Sodium Carbonate	Primary titrimetric standard for the standardization of volumetric standard solutions and validation of standard methods	Available soon	https://aashvitechnology.com/place-order/

17.	BND 1024	Calcium Carbonate	Primary titrimetric standard for the standardization of volumetric standard solutions and validation of standard methods	Available soon	https://aashvitechnology.com/place-order/
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Bhartiya Nirdeshak Dravya (BND®)
(In collaboration with Hindustan Petroleum Corporation Limited, Andhra Pradesh)



S. No.	BND Number	BND Name	Matrix	Purpose	Price per BND	Available and purchase at / BND Price and other details
1.	BND 7001	Sulphur 2.5 ppm	Diesel		Available soon	ravindranthakur@hpcl.in
2.	BND 7002	Sulphur 5 ppm	Diesel	calibration of instruments and the evaluation of test methods used in the determination of total sulfur in diesel or materials of similar matrix	Available soon	ravindranthakur@hpcl.in
3.	BND 7003	Sulphur 10 ppm	Diesel	calibration of instruments and the evaluation of test methods used in the determination of total sulfur in diesel or materials of similar matrix	Available soon	ravindranthakur@hpcl.in
4.	BND 7004	Sulphur 25 ppm	Gasoline	calibration of instruments and the evaluation of test methods used in the determination of total sulfur in gasoline or materials of similar matrix.	Available soon	ravindranthakur@hpcl.in

5.	BND 7005	Sulphur 50 ppm	Diesel	calibration of instruments and the evaluation of test methods used in the determination of total sulfur in diesel or materials of similar matrix	Available soon	ravindranthakur@hpcl.in
6.	BND 7006	Sulphur 50 ppm	Gasoline	the calibration of instruments and the evaluation of test methods used in the determination of total sulfur in gasoline or materials of similar matrix	Available soon	ravindranthakur@hpcl.in
7.	BND 7007	Sulphur 100ppm	Kerosine	calibration of instruments and the evaluation of test methods used in the determination of total sulfur in kerosene or materials of similar matrix	Available soon	ravindranthakur@hpcl.in
8.	BND 7008	Density (650-1000 Kg/M3)	Petroleum oils	calibration of instruments and the evaluation of test methods	Available soon	ravindranthakur@hpcl.in
9.	BND 7009	Kinematic Viscosity at 40 °C	Petroleum oils	calibration of instruments and the evaluation of test methods	Available soon	ravindranthakur@hpcl.in
10.	BND 7010	Kinematic Viscosity at 50°C	Mineral oil	calibration of instruments and the evaluation of test methods	Available soon	ravindranthakur@hpcl.in
11.	BND 7011	Kinematic Viscosity at 100 °C	Mineral oil	calibration of instruments and the evaluation of test methods	Available soon	ravindranthakur@hpcl.in
12.	BND 7012	Kinematic Viscosity at (-20°C)	Petroleum	calibration of instruments and the evaluation of test methods	Available soon	ravindranthakur@hpcl.in
13.	BND 7013	Freezing point	Petroleum	calibration of instruments and the evaluation of test methods	Available soon	ravindranthakur@hpcl.in
14.	BND 7014	Flash Point-Abel	Petroleum	calibration of instruments and the evaluation of test methods	Available soon	ravindranthakur@hpcl.in
15.	BND 7015	Flash Point-PMCC	Mineral oil	calibration of instruments and the evaluation of test methods	Available soon	ravindranthakur@hpcl.in

16.	BND 7016	Flash Point-COC	Mineral oil	calibration of instruments and the evaluation of test methods	Available soon	ravindranthakur@hpcl.in
17.	BND 7017	Smoke point	Petroleum	calibration of instruments and the evaluation of test methods used in the determination of total Smoke point of Petroleum Oils and materials of similar matrix like ATF matrix	Available soon	ravindranthakur@hpcl.in
18.	BND 7018	Distillation Standard-Group 2	Petroleum	calibration of instruments and the evaluation of test methods used in the determination of Distillation properties of Petroleum Oils or oils of similar matrix	Available soon	ravindranthakur@hpcl.in
19.	BND 7019	Distillation Standard-Group 4	Petroleum	calibration of instruments and the evaluation of test methods used in the determination of Distillation properties of Petroleum Oils or oils of similar matrix	Available soon	ravindranthakur@hpcl.in
20.	BND 7020	Pour Point	Petroleum	Use for the evaluation of test methods Pour Point of Petroleum Oils or oils of similar matrix	Available soon	ravindranthakur@hpcl.in
21.	BND 7021	Colour Saybolt	Petroleum	Use for the evaluation of test methods, performance verification of equipment used in the determination of Colour Saybolt	Available soon	ravindranthakur@hpcl.in
22.	BND 7022	Colour ASTM	Mineral oil	Use for the evaluation of test methods, performance verification of equipment used in the determination of Colour ASTM	Available soon	ravindranthakur@hpcl.in

23.	BND 7023	Total Base Number	Mineral oil	calibration of instruments and the evaluation of test methods used in the determination of total base number in Mineral oil / Mineral oil matrix matching material	Available soon	ravindranthakur@hpcl.in
24.	BND 7024	Total Acid Number	Mineral oil	calibration of instruments and the evaluation of test methods used in the determination of total acid number in Mineral oil / Mineral oil matrix matching material.	Available soon	ravindranthakur@hpcl.in
25.	BND 7025	FIA-Aromatics, Olefins, Saturates	Petroleum	calibration of instruments and the evaluation of test methods used in the determination of Aromatic, Olefins and Saturates content in Petroleum Oils or oils of similar matrix	Available soon	ravindranthakur@hpcl.in
26.	BND 7026	Sulphur 2.5 ppm	Gasoline	Available soon	Available soon	ravindranthakur@hpcl.in
27.	BND 7027	Sulphur 5 ppm	Gasoline	Available soon	Available soon	ravindranthakur@hpcl.in
28.	BND 7028	Sulphur 10 ppm	Gasoline	Available soon	Available soon	ravindranthakur@hpcl.in



Bhartiya Nirdeshak Dravya (BND®)
(In collaboration with Global PT Provider (P) Limited
New Delhi)



S. No.	BND Number	BND Name	Purpose	Price per BND	Available and purchase at / BND Price and other details
1	BND 2201	Rockwell Hardness (C Scale): 44.33±0.83	Verification of the Rockwell Hardness Testing Machine	Available soon	umesh@globalptprovider.com
2	BND 2202	Rockwell Hardness (C Scale): 61.04±0.77	Verification of the Rockwell Hardness Testing Machine	Available soon	umesh@globalptprovider.com
3	BND 2204	Vickers Hardness (5 kgf/49.03N Load): 735.6±13.9	Verification of the Vickers Hardness testing Machine	Available soon	umesh@globalptprovider.com

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