

INDIAN REFERENCE MATERIAL

“Ensuring the quality for Atmanirbhar Bharat”



INDIAN REFERENCE MATERIAL



Bharatiya Nirdeśhak 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://igmmum.bai.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 2001	α -Alumina Powder	Use as an internal standard for intensity calibration for powder X-ray diffraction	5,000/-g	5g /Btl.	http://www.nplindia.in/information-contact-cfct
5	BND 6001	Primary Reference Gas Mixture of CO in nitrogen gas (5 μ mol/mol)	These standards are to be used for the calibration of analytical	1.3 Lakh/cylinder	10 litre Aluminium cylinder filled	http://www.nplindia.in/information-contact-cfct

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			Instruments, gas analyzers and emission monitoring instruments		at approx 120 bar	
6	BND 6002	Primary Reference Gas Mixture of CO in nitrogen gas (50 $\mu\text{mol/mol}$)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.3 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
7	BND 6003	Primary Reference Gas Mixture of CO in nitrogen gas (100 $\mu\text{mol/mol}$)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.3 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
8	BND 6004	Primary Reference Gas Mixture of CO ₂ in nitrogen gas (500 $\mu\text{mol/mol}$)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.2 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
9	BND 6005	Primary Reference Gas Mixture of CO ₂ in nitrogen gas (13 %mol/mol)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.2 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
10	BND 6006	Primary Reference Gas Mixture of CO ₂ in	These standards are to be used for the calibration of analytical	1.2 Lakh/cylinder	10 litre Aluminium cylinder filled	http://www.nplindia.in/inform

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		nitrogen gas (3 %mol/mol)	Instruments, gas analyzers and emission monitoring instruments		at approx 120 bar	ation-contact-cfct
11	BND 6007	Primary Reference Gas Mixture of CO ₂ in nitrogen gas (1 %mol/mol)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.2 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
12	BND 6008	Primary Reference Gas Mixture of CO ₂ in synthetic air (400 µmol/mol)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.5 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
13	BND 6009	Primary Reference Gas Mixture of CO ₂ in synthetic air (500 µmol/mol)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.5 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
14	BND 6010	Primary Reference Gas Mixture of CO ₂ in synthetic air (800 µmol/mol)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.5 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
15	BND 6011	Primary Reference Gas Mixture of CH ₄ in nitrogen gas (2 µmol/mol)	These standards are to be used for the calibration of analytical	1.2 Lakh/cylinder	10 litre Aluminium cylinder filled	http://www.nplindia.in/inform

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			Instruments, gas analyzers and emission monitoring instruments		at approx 120 bar	ation-contact-cfct
16	BND 6012	Primary Reference Gas Mixture of CH ₄ in nitrogen gas (10 µmol/mol)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.2 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
17	BND 6013	Primary Reference Gas Mixture of SO ₂ in nitrogen gas (100 µmol/mol)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.3 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
18	BND 6014	Primary Reference Gas Mixture of SO ₂ in nitrogen gas (50 µmol/mol)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.3 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
	BND 6015	Primary Reference Gas Mixture of CH ₄ in nitrogen gas (2.5 %mol/mol)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.2 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
19	BND 6016	Primary Reference Gas Mixture of NO in nitrogen gas (50 µmol/mol)	These standards are to be used for the calibration of analytical	1.3 Lakh/cylinder	10 litre Aluminium cylinder filled	http://www.nplindia.in/information-contact-cfct

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			Instruments, gas analyzers and emission monitoring instruments		at approx 120 bar	
20	BND 6017	Primary Reference Gas Mixture of NO in nitrogen gas (100 $\mu\text{mol/mol}$)	These standards are to be used for the calibration of analytical Instruments, gas analyzers and emission monitoring instruments	1.3 Lakh/cylinder	10 litre Aluminium cylinder filled at approx 120 bar	http://www.nplindia.in/information-contact-cfct
21	BND 6018	Calibration standards for Particulate matter (Solid) (Dust particulate for metal ions as per NAAQS)	These standards are to be used for the calibration of analytical Instruments	Pending	Pending	http://www.nplindia.in/information-contact-cfct

* Gas BNDs are available on customer demand

Bharatiya Nirdeshak Dravya

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Bharatiya Nirdeshak Dravya (BND®) (In collaboration with NCB, Ballabgarh)



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

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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	INR 9600.00 USD 255	https://www.ncbindia.com/contact-us.php
13	BND 5055	Composite 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 8800.00 USD 240	https://www.ncbindia.com/contact-us.php
14	BND 5056	Limestone	Proficiency evaluation of analyst evaluation and comparison of various test methods and	INR 9600.00 USD 255	https://www.ncbindia.com/contact-us.php

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			calibration of equipment for analysing minor constituents for analysis of Ordinary Portland Cement and material of similar matrix		https://www.ncbindia.com/contact-us.php
15	BND 5057	Raw Meal	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
16	BND 5058	Clinker	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



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Bharatiya 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 quantitative determination of copper calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2000.00	http://aashvitechnology.com/products.php
2.	BND 1004	Nickel Standard Solution	Primary Calibration standard for quantitative determination of Nickel calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2000.00	http://aashvitechnology.com/products.php
3.	BND 1005	pH Buffer Solution 4.00	Calibration standard for calibration of pH instrument and validation of method for determination of the pH value.	INR 1600.00	http://aashvitechnology.com/products.php

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4.	BND 1006	pH Buffer Solution 7.00	Calibration standard for calibration of pH instrument and validation of method for determination of the pH value.	INR 1600.00	http://aashvitechnology.com/products.php
5.	BND 1007	pH Buffer Solution 9.00	Calibration standard for calibration of pH instrument and validation of method for determination of the pH value.	INR 1600.00	http://aashvitechnology.com/products.php
6.	BND 1008	Conductivity (1.41 ms/cm)	Calibration standard for calibration of Conductivity instrument and validation of method for determination of the Conductivity value.	INR 6500.00	http://aashvitechnology.com/products.php
7.	BND 1009	Nitrate Standard Solution	Primary Calibration standard for quantitative determination of Nitrate calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 4500.00	http://aashvitechnology.com/products.php
8.	BND 1010	Lead Standard Solution	Primary Calibration standard for quantitative determination of Lead calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2200.00	http://aashvitechnology.com/products.php
9.	BND 1011	Arsenic Standard Solution	Primary Calibration standard for quantitative determination of Arsenic calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2200.00	http://aashvitechnology.com/products.php
10.	BND 1012	Mercury Standard Solution	Primary calibration standard for the quantitative determination of Mercury	INR 2800.00	http://aashvitechnology.com/products.php
11.	BND 1013	Cadmium Standard Solution	Primary Calibration standard for quantitative determination of Cadmium calibration of instrument and validation of method for the	INR 2100.00	http://aashvitechnology.com/products.php

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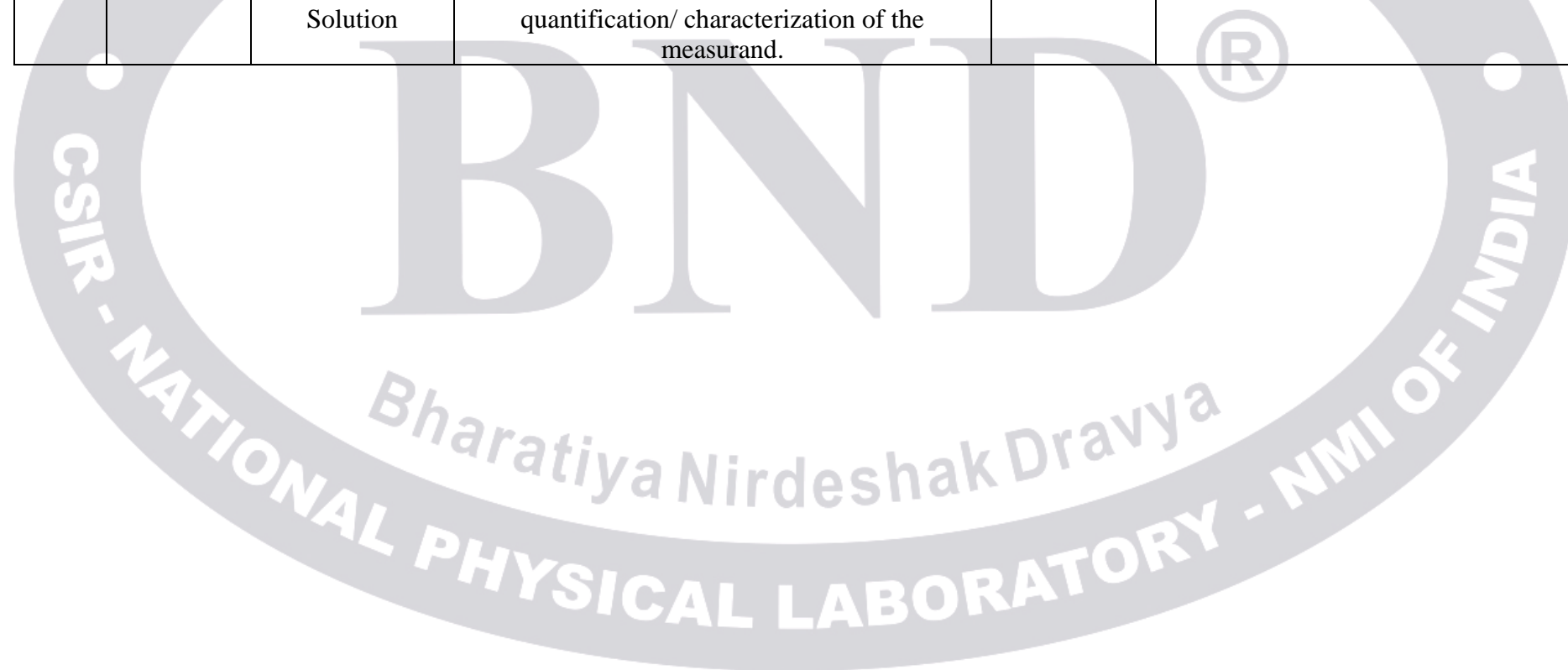
			quantification/ characterization of the measurand.		
12.	BND 1014	Silver Standard Solution	Primary Calibration standard for quantitative determination of Silver calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2500.00	http://aashvitechnology.com/products.php
13.	BND 1015	Zinc Standard Solution	Primary Calibration standard for quantitative determination of Zinc calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2100.00	http://aashvitechnology.com/products.php
14.	BND 1016	Potassium Hydrogen Phthalate	Primary titrimetric standard for the standardization of volumetric standard solutions and validation of standard methods.	INR 3800.00	http://aashvitechnology.com/products.php
15.	BND 1017	Potassium Dichromate	Primary titrimetric standard for the standardization of volumetric standard solutions, calibration of equipments and validation of standard methods.	INR 3200.00	http://aashvitechnology.com/products.php
16.	BND 1018	Sodium Chloride	Primary standard for the standardization of titrimetric and volumetric standard solutions for the validation of standard methods.	INR 3800.00	http://aashvitechnology.com/products.php
17.	BND 1019	Iron Standard Solution	Primary Calibration standard for quantitative determination of Iron calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2400.00	http://aashvitechnology.com/products.php
18.	BND 1020	Potassium Standard Solution	Primary Calibration standard for quantitative determination of Potassium calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2200.00	http://aashvitechnology.com/products.php

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19.	BND 1021	TDS Standard Solution	Gravimetric Standard for the validation of standard methods and calibration of Instruments.	INR 1600.00	http://aashvitechnology.com/products.php
20.	BND 1022	pH Buffer Solution 9.20	Calibration standard for calibration of pH instrument and validation of method for determination of the pH value.	INR 1600.00	http://aashvitechnology.com/products.php
21.	BND 1023	Sodium Carbonate	Primary standard for the standardization of titrimetric and volumetric standard solutions for the validation of standard methods.	INR 4500.00	http://aashvitechnology.com/products.php
22.	BND 1024	Calcium Carbonate	Primary standard for the standardization of titrimetric and volumetric standard solutions for the validation of standard methods.	INR 4500.00	http://aashvitechnology.com/products.php
23.	BND 1025	Chromium Standard Solution	Primary Calibration standard for quantitative determination of Chromium calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2400.00	http://aashvitechnology.com/products.php
24.	BND 1026	Aluminium Standard Solution	Primary Calibration standard for quantitative determination of Aluminium calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2500.00	http://aashvitechnology.com/products.php
25.	BND 1027	Sodium Standard Solution	Primary Calibration standard for quantitative determination of Sodium calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2500.00	http://aashvitechnology.com/products.php
26.	BND 1028	Fluoride Standard Solution	Primary Calibration standard for quantitative determination of Fluoride calibration of instrument and validation of method for the	INR 5000.00	http://aashvitechnology.com/products.php

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			quantification/ characterization of the measurand.		
27.	BND 1029	Sulphate Standard Solution	Primary Calibration standard for quantitative determination of Sulphate calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 4500.00	http://aashvitechnology.com/products.php
28.	BND 1030	Calcium Standard Solution	Primary Calibration standard for quantitative determination of Calcium calibration of instrument and validation of method for the quantification/ characterization of the measurand.	INR 2500.00	http://aashvitechnology.com/products.php



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Bharatiya Nirdeshak Dravya

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Bharatiya Nirdehak Dravya (BND®)
(In collaboration with Hindustan Petroleum Corporation Limited, Andhra Pradesh



&
Bharat Petroleum Corporation Limited, Mumbai)

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	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
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	Available soon	ravindranthakur@hpcl.in

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				the determination of total sulfur in diesel or materials of similar matrix		
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

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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

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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
29.	BND 7052	Flash point-PMCC std.	Diesel	calibration/test of instruments and validation of test methods in the determination of Flash Point-PMCC	Available soon	Available soon

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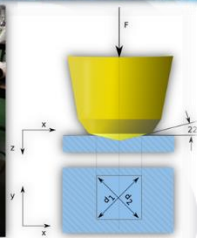
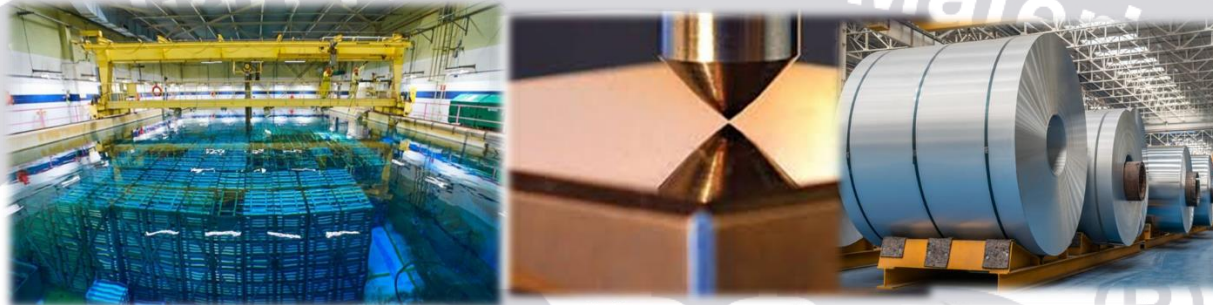


Bhartiya Nirdeshak Dravya (BND®)
 (In collaboration with Global PT Provider (P) Limited
 New Delhi)

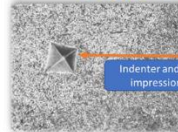


S. No.	BND Number	BND Name	Purpose	Price per BND	Available and purchase at / BND Price and other details
1	BND 2201	Rockwell Hardness (C Scale): 44.33±0.83	Verification of the Rockwell Hardness Testing Machine	INR 3500.00	umesh@globalptprovider.com
2	BND 2202	Rockwell Hardness (C Scale): 61.04±0.77	Verification of the Rockwell Hardness Testing Machine	INR 3500.00	umesh@globalptprovider.com
3	BND 2204	Vickers Hardness (5 kgf/49.03N Load): 735.6±13.9	Verification of the Vickers Hardness testing Machine	INR 3500.00	umesh@globalptprovider.com

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Vicker Hardness Test



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