



List of Reference Material with NABL Accredited RMP

S. No	RM/CRM	Name of RM/CRM	Purpose/ Intended use	Pack size	Name of RMP	Contact Details	Link of Website
1	CRM	Copper Solution	Calibration of Equipment, Quantitative determination of Copper, Validation of Method	100ml	Aashvi Technology LLP, Ahmedabad	Tushar Parekh/Hardik Sharma sales@aqcrm.com 7227925050/ 9974145050	https://aashvitechnology.com/products.php
2	CRM	Nickel Solution	Calibration of Equipment, Quantitative determination of Nickel, Validation of Method	100ml			
3	CRM	pH Standard Solution 4.00	Calibration standard for pH instruments and validation of method for the determination of pH value	250ml			
4	CRM	pH Standard Solution 7.00	Calibration standard for pH instruments and validation of method for the determination of pH value	250ml			
5	CRM	pH Standard Solution 9.00	Calibration standard for pH instruments and validation of method for the determination of pH value	250ml			
6	CRM	Conductivity Standard Solution 1.41ms/cm	Calibration of Conductivity instruments and validation of method for the determination of conductivity value	500ml			
7	CRM	Nitrate Solution	Calibration of Equipment, Quantitative determination of Nitrate, Validation of Method	500ml			
8	CRM	Lead Solution	Calibration of Equipment, Quantitative determination of Lead, Validation of Method	100ml			
9	CRM	Arsenic Solution	Calibration of Equipment, Quantitative determination of Arsenic, Validation of Method	100ml			
10	CRM	Mercury Solution	Calibration of Equipment, Quantitative determination of Mercury, Validation of Method	100ml			



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11	CRM	Cadmium Solution	Calibration of Equipment, Quantitative determination of Cadmium, Validation of Method	100ml	Aashvi Technology LLP, Ahmedabad	Tushar Parekh/Hardik Sharma sales@aqcrm.com 7227925050/ 9974145050	https://aashvitechnology.com/products.php
12	CRM	Silver Solution	Calibration of Equipment, Quantitative determination of Silver, Validation of Method	100ml			
13	CRM	Zinc Solution	Calibration of Equipment, Quantitative determination of Zinc, Validation of Method	100ml			
14	CRM	Potassium Hydrogen Phthalate	Titrimetric standard for the standardization of volumetric standard solution and validation of Method	45g			
15	CRM	Potassium dichromate	Titrimetric standard for the standardization of volumetric standard solution, Calibration of equipments and validation of method	45g			
16	CRM	Sodium chloride	Titrimetric standard for the standardization of volumetric standard solution and validation of method	45g			
17	CRM	Iron Solution	Calibration of Equipment, Quantitative determination of Iron, Validation of Method	100ml			
18	CRM	Potassium Solution	Calibration of Equipment, Quantitative determination of Potassium, Validation of Method	100ml			
19	CRM	Total Dissolve Solid	Gravimetric standard for the validation of standard method and calibration of instruments	250ml			



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20	CRM	pH Standard Solution 9.2	Calibration standard for pH instruments and validation of method for the determination of pH value	250ml	Aashvi Technology LLP, Ahmedabad	Tushar Parekh/Hardik Sharma sales@aqcrm.com 7227925050/ 9974145050	https://aashvitechnology.com/products.php
21	CRM	Sodium Carbonate	Titrimetric standard for the standardization of volumetric standard solution and validation of method	45g			
22	CRM	Calcium Carbonate	Titrimetric standard for the standardization of volumetric standard solution and validation of method	20g			
23	CRM	Chromium Solution	Calibration of Equipment, Quantitative determination of Chromium, Validation of Method	100ml			
24	CRM	Aluminium Solution	Calibration of Equipment, Quantitative determination of Aluminium, Validation of Method	100ml			
25	CRM	Sodium Solution	Calibration of Equipment, Quantitative determination of Sodium, Validation of Method	100ml			
26	CRM	Sulphate Solution	Calibration of Equipment, Quantitative determination of Sulphate, Validation of Method	500ml			
27	CRM	Calcium Solution	Calibration of Equipment, Quantitative determination of Calcium, Validation of Method	100ml			
28	RM	Groundnut Oil	To detect adulteration of Groundnut oil in other edible Oils.	15g			
29	RM	Sesame Oil	To detect adulteration of Sesame Oil in other edible Oils.	15g			



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30	RM	Linseed Oil	To detect adulteration of Linseed Oil in other edible Oils.	15g	Aashvi Technology LLP, Ahmedabad	Tushar Parekh/Hardik Sharma sales@aqcrm.com 7227925050/ 9974145050	https://aashvitechnology.com/products.php
31	RM	Karanja Oil	To detect adulteration of Karanja Oil in other edible Oils.	15g			
32	RM	Neem Oil	To detect adulteration of Neem Oil in other edible Oils.	15g			
33	RM	Castor Oil	To detect adulteration of Castor Oil in other edible Oils.	15g			
34	RM	Cottonseed Oil	To detect adulteration of Cottonseed Oil in other edible Oils.	15g			
35	RM	Mineral Oil	To detect adulteration of Mineral Oil in other edible Oils.	15g			
36	RM	Argemone Oil	To detect adulteration of Argemone Oil in other edible Oils.	5g			
37	RM	Turmeric Powder with Lead Chromate	To detect adulteration of Lead Chromate in Turmeric Powder	40g	Sums Techno Labs Pvt. Ltd., Bellary	Akhileswar Reddy K +91 8884494257 technolabs@sums.org.in	www.sums.org.in
38	RM	Iron Ore	It is intended to use as a primary calibration standard for calibration of instruments and also validation of method for characterization of the measured for analysis of Iron Ore	100gms			
39	RM	Manganese Ore	It is intended to use as a primary calibration standard for calibration of instruments and also validation of method for characterization of the measured for analysis of Manganese Ore	100gms			



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40	RM	Limestone	Use as a primary calibration standard for calibration of instruments and also validation of method for characterization of the measured for analysis of Limestone	100gms	Sums Techno Labs Pvt. Ltd., Bellary	Akhileswar Reddy K +91 8884494257 technolabs@sums.org.in	www.sums.org.in
41	CRM	Quartzite	Use as a primary calibration standard for calibration of instruments and validation of method for characterization of the measured for analysis of Quartzite	100gms			
42	CRM	Coal	Use as a primary calibration standard for calibration of instruments and validation of method for characterization of the measured for analysis of Coal	50gms			
43	RM	Aciclovir I. P	As Reference material for Assay/RS	1gm	Pharmaffiliates Analytics and Synthetics Pvt. Ltd., Panchkula	Sameer Gautam ,contact@pharmaffiliates.com om 9216682054	www.pharmaffiliates.com
44	RM	Ambroxol HCl I.P.	As Reference material for Assay/RS	1gm			
45	RM	Paracetamol I.P.	As Reference material for Assay/RS	1gm			
46	RM	Atenolol I.P.	As Reference material for Assay/RS	1gm			
47	RM	Guaiphenesin I.P.	As Reference material for Assay/RS	1gm			
48	RM	Trimethoprim I.P.	As Reference material for Assay/RS	1gm			
49	RM	Atorvastatin Calcium I.P.	As Reference material for Assay/RS	1gm			
50	RM	Salicylic acid I. P.	As Reference material for Assay/RS	1gm			



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51	CRM	Quartz	Standard in evaluation of analytical methods for Al, Ca, Fe, K, Mg, Na, Ti content in quartz matrix	25 gm	National Centre for Compositional Characterization of Materials, Hyderabad	Dr. K. Dash kdash@barc.gov.in	ncccm.gov.in
52	CRM	Noodles powder	Standard in evaluation of analytical methods for Lead content in noodle matrix	20 gm			
53	CRM	Melt Flow Rate (Polypropelene)	<ul style="list-style-type: none"> • To demonstrate control of a measurement process within a laboratory over a period of time. • To check instrument performance • Repeatability and reproducibility studies – repeated use over an extended period of time, instruments, operators, etc., to estimate long term reproducibility or robustness of a measurement process or laboratory. • To confirm the degree of equivalence of measurement results from two or more laboratories (e.g. Provider and user), where the materials are inherently stable. • To check operator variability 	100 grams	Fine Finish Organics Pvt. Ltd., RMP Division, Navi Mumbai	Karishma Prabhu karishma.prabhu@finefinish.net 9821933534 , Sanyogeeta Pawar Proficiency.testing@finefinish.net 9372705939	https://finefinish.net/index.php/crms/



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S. No	RM/CRM	Name of RM/CRM	Purpose/ Intended use	Pack size	Name of RMP	Contact Details	Link of Website
54	CRM	Tensile strength (Fibre Reinforced composite)	<ul style="list-style-type: none"> • To demonstrate control of a measurement process within a laboratory over a period of time. • To check instrument performance • Repeatability and reproducibility studies – repeated use over an extended period of time, instruments, operators, etc., to estimate long term reproducibility or robustness of a measurement process or laboratory. • To confirm the degree of equivalence of measurement results from two or more laboratories (e.g. Provider and user), where the materials are inherently stable. • To check operator variability 	5 specimen (per set)	Fine Finish Organics Pvt. Ltd., RMP Division, Navi Mumbai	karishma.prabhu@finefinish.net 9821933534 , Sanyogeeta Pawar Proficiency.testing@finefinish.net 9372705939	https://finefinish.net/index.php/crms/
55	CRM	Tensile strength (Polypropylene)	<ul style="list-style-type: none"> • To demonstrate control of a measurement process within a laboratory over a period of time. • To check instrument performance • Repeatability and reproducibility studies – repeated use over an extended period of time, instruments, operators, etc., to estimate long term reproducibility or robustness of a measurement process or laboratory. • To confirm the degree of equivalence of measurement 				



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S. No	RM/CRM	Name of RM/CRM	Purpose/ Intended use	Pack size	Name of RMP	Contact Details	Link of Website
			results from two or more laboratories (e.g. Provider and user), where the materials are inherently stable. • To check operator variability	5 specimens (per set)	Fine Finish Organics Pvt. Ltd., RMP Division, Navi Mumbai	Karishma Prabhu karishma.prabhu@finefinish.net 9821933534 , Sanyogeeta Pawar Proficiency.testing@finefinish.net 9372705939	https://finefinish.net/index.php/crms/
56	RM	Density (Polypropylene)	• To demonstrate control of a measurement process within a laboratory over a period of time. • To check instrument performance • Repeatability and reproducibility studies – repeated use over an extended period of time, instruments, operators, etc., to estimate long term reproducibility or robustness of a measurement process or laboratory. • To confirm the degree of equivalence of measurement results from two or more laboratories (e.g. Provider and user), where the materials are inherently stable. • To check operator variability	3 specimen (per set)			
57	RM	Epoxyazadiradione (EADD)	Standardization of Neem products	5 mg onwards	AsthaGiri Herbal Research Foundation, Chennai	Dr. S. Narasimhan, CMD, asthagiri.herbal@gmail.com , 9840064340	https://asthagiriherbal.org.in



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58	CRM	Ferrous Charpy V Notch Reference Test Pieces (Absorbed Energy @+20°C (2 mm Striker)	Indirect Verification of Charpy Impact Testing Machine as per ISO 148 - 2	1 set (one set of five test pieces)	Anand Testing Machine Services, Ichalkaranji	Mr. Sheetalkumar V. Anandache, shital.anandtest@gmail.com, 0230 - 242 3351, 094224 23236	www.indiamart.com/anand-testing
59	CRM	Ferrous Charpy V Notch Reference Test Pieces Absorbed Energy @ -40°C (2 mm Striker)	Indirect Verification of Charpy Impact Testing Machine as per ISO 148 - 2	1 set (one set of five test pieces)			
60	RM	Ferrous Charpy V Notch Reference Test Pieces (Absorbed Energy @+20°C & -40°C (8 mm Striker)	1. Method validation; 2. Calibration and Quality Control; 3. Interlaboratory comparisons for method validation; 4. Interlaboratory comparisons for Assessing Laboratory Proficiency; 5. Ensuring the validity of results; 6. Intermediate checks on Charpy Impact Testing Machine	1 set (one set of five test pieces)			
61	RM	Ferrous Izod V Notch Reference Test Pieces (Absorbed Energy @ 10 to 35°C)	1. Method validation; 2. Calibration and Quality Control; 3. Interlaboratory comparisons for method validation; 4. Interlaboratory comparisons for Assessing Laboratory Proficiency; 5. Ensuring the validity of results; 6. Intermediate checks on Izod Impact Testing Machine	1 set (one set of five test pieces)			



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62	RM	Acephate	Chemical Testing	0.25 g	Central Quality Assurance Laboratory, Rallis India Limited, Bharuch	Mr. Rajendra Petkar rajendra.petkar@rallis.com	NA
63	RM	Metribuzin	Chemical Testing	0.25 g			
64	RM	Pendimethalin	Chemical Testing	0.25 g			
65	RM	Flubendiamide	Chemical Testing	0.25 g			
66	RM	Metalaxyl	Chemical Testing	0.25 g			
67	RM	Imidacloprid	Chemical Testing	0.25 g			
68	RM	Acetamiprid	Chemical Testing	0.25 g			
69	RM	Buprofezin	Chemical Testing	0.25 g			
70	RM	Kresoxim Methyl	Chemical Testing	0.25 g			
71	RM	Hexaconazole	Chemical Testing	0.25 g			
72	RM	Tebuconazole	Chemical Testing	0.25 g			
73	RM	Captan	Chemical Testing	0.25 g			
74	RM	Fenpyroximate	Chemical Testing	0.25 g			
75	RM	Lambda Cyhalothrin	Chemical Testing	0.25 g			
76	RM	Chloropyrifos	Chemical Testing	0.25 g			
77	RM	Ethion	Chemical Testing	0.25 g			
78	RM	Tricyclazole	Chemical Testing	0.25 g			
79	RM	Difenthiuron	Chemical Testing	0.25 g			
80	RM	Pretilachlor	Chemical Testing	0.25 g			
81	RM	Thiamethoxam	Chemical Testing	0.25 g			
82	RM	Fenvelerate	Chemical Testing	0.25 g			
83	RM	Cypermethrin	Chemical Testing	0.25 g			
84	CRM	Ordinary Portland Cement Surface Area (Fineness by Blaine's Air Permeability) (High Fineness)	Calibration of Blaine's Air Permeability Apparatus/ Validation of Test Method/ Developing secondary reference standards for routine quality control/ Evaluating proficiency of analyst/ Use as PT item for proficiency testing program	Four No. Vials (Each 10 g)			



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85	CRM	Ordinary Portland Cement Surface Area (Fineness by Blaine's Air Permeability) (Low Fineness)	Calibration of Blaine's Air Permeability Apparatus/ Validation of Test Method/ Developing secondary reference standards for routine quality control/ Evaluating proficiency of analyst/ Use as PT item for proficiency testing program	Four No. Vials (Each 10 g)	CIMEC INFRALABS PVT. Ltd., (RMP Division), Ghaziabad	Manager, Customer Services, Mail ID: rmp@cimec.in, +91 9599383143	NA
86	CRM	Pozzolana Portland Cement Surface Area (Fineness by Blaine's Air Permeability)	Calibration of Blaine's Air Permeability Apparatus/ Validation of Test Method/ Developing secondary reference standards for routine quality control/ Evaluating proficiency of analyst/ Use as PT item for proficiency testing program	Four No. Vials (Each 10 g)			
87	CRM	White Portland Cement-Surface Area (Fineness by Blaine's Air Permeability)	Calibration of Blaine's Air Permeability Apparatus/ Validation of Test Method/ Developing secondary reference standards for routine quality control/ Evaluating proficiency of analyst/ Use as PT item for proficiency testing program	Four No. Vials (Each 10 g)			
88	CRM	Fly Ash-Surface Area (Fineness by Blaine's Air Permeability)	Calibration of Blaine's Air Permeability Apparatus/ Validation of Test Method/ Developing secondary reference standards for routine quality control/ Evaluating proficiency of analyst/ Use as PT item for proficiency testing program	Four No. Vials (Each 10 g)			



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89	RM	Ordinary Portland Cement -Silica (SiO ₂), Aluminium Oxide (Al ₂ O ₃), Iron Oxide (Fe ₂ O ₃), Calcium Oxide (CaO), Magnesium Oxide (MgO), SulphuricAnhydride (SO ₃), Loss on Ignition (LOI), Insoluble Residue (IR)	Calibration/ Validation of Test Method	Four No. Vials (Each 5 g)	CIMEC INFRALABS PVT. Ltd., (RMP Division), Ghaziabad	Manager, Customer Services, Mail ID: rmp@cimec.in, +91 9599383143	NA
90	RM	Pozzolana Portland Cement - Silica (SiO ₂), Aluminium Oxide (Al ₂ O ₃), Iron Oxide (Fe ₂ O ₃), Calcium Oxide (CaO), Magnesium Oxide (MgO), Sulphuric Anhydride (SO ₃), Loss on Ignition (LOI), Insoluble Residue (IR)	Calibration/ Validation of Test Method	Four No. Vials (Each 5 g)			
91	RM	Fly Ash - Silica (SiO ₂), Aluminium Oxide (Al ₂ O ₃), Iron Oxide (Fe ₂ O ₃), Calcium Oxide (CaO), Magnesium Oxide (MgO), SulphuricAnhydride (SO ₃), Loss on Ignition (LOI)	Calibration/ Validation of Test Method	Four No. Vials (Each 5 g)			



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92	RM	Clinker - Silica (SiO ₂), Aluminium Oxide (Al ₂ O ₃), Iron Oxide (Fe ₂ O ₃), Calcium Oxide (CaO), Magnesium Oxide (MgO), SulphuricAnhydride (SO ₃), Loss on Ignition (LOI), Insoluble Residue (IR)	Calibration/ Validation of Test Method	Four No. Vials (Each 5 g)	CIMEC INFRALABS PVT. Ltd., (RMP Division), Ghaziabad	Manager, Customer Services, Mail ID: rmp@cimec.in, +91 9599383143	NA
93	RM	Hydrated Lime - Calcium Oxide (CaO), Magnesium Oxide (MgO), Silica (SiO ₂) Insoluble Residue (IR)	Lime Reactivity Test of Pozzolanic Materials	Three No. Packs (Each 160 g)			
94	RM	Standard Sand (Smaller than 2 mm & greater than 1 mm)	Particle Size determination (Smaller than 2 mm & greater than 1 mm) Ref. IS 650	24 kg bag (12 X 2.0 kg)			
95	RM	Standard Sand (Smaller than 1 mm & greater than 500 microns)	Particle Size determination (Smaller than 1 mm & greater than 500 microns) Ref. IS 650	24 kg bag (12 X 2.0 kg)			
96	RM	Standard Sand (Smaller than 500 microns & greater than 90 microns)	Particle Size determination (Smaller than 1 mm & greater than 500 microns) Ref. IS 650	24 kg bag 12 X 2.0 kg)			



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97	CRM	Hydrated Lime CaO, MgO, SiO ₂ , IR	Lime Reactivity Test	500 g	Standard Reference Material, National Council for Cement and Building Materials, Ballabgarh	Amit Trivedi cqcb@ncbindia.com 0129-4192239, 305	NA
98	CRM	Hydrated Lime (CaO, MgO, SiO ₂ & IR)	Lime Reactivity Test	500g			
99	CRM	Pet coke (Ash content, Volatile matter, Sulphur & Calorific value)	Calibration of Instrument (Bomb Calorimeter) and validation of method for characterization of the measurand for analysis of pet coke.	40g			
100	CRM	Silica Fume (LOI, SiO ₂ , Na ₂ O, & K ₂ O)	Calibration of Instrument and validation of method for characterization of the measurand for analysis of Silica fume	20g			
101	CRM	Gypsum- (Combined water, SiO ₂ +Acid insoluble, Fe ₂ O ₃ +Al ₂ O ₃ , CaO, MgO, SO ₃ & Cl (as NaCl))	Calibration of Instrument and validation of method for characterization of the measurand for analysis of Gypsum	20g			
102	CRM	White Portland Cement (LOI, SiO ₂ , Fe ₂ O ₃ , Al ₂ O ₃ , CaO, MgO, SO ₃ , Na ₂ O, K ₂ O & Cl)	Calibration of Instrument and validation of method for characterization of the measurand for analysis of WPC	20g			



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103	CRM	Blast Furnace Slag- (Blaine's fineness)	Calibration Blaine Air Permeability Apparatus and validation of test methods	40g	Standard Reference Material, National Council for Cement and Building Materials, Ballabgare	Amit Trivedi cqcb@ncbindia.com 0129-4192239, 305 Dr. Anuj Prakash lab.ipc@gov.in 0120-2800500/2783392	
104	CRM	Ordinary Portland Cement(Residue on 45 µm sieve (wet sieving))	Calibration of Sieve	40g			
105	RM	Red Ochre (SiO ₂ , Fe ₂ O ₃ , Al ₂ O ₃ & CaO)	Calibration of instruments	20g			
106	RM	Laterite (SiO ₂ , Fe ₂ O ₃ , Al ₂ O ₃ , CaO, MgO, SO ₃ , Na ₂ O & K ₂ O)	Calibration of instruments	20g			
107	CRM	Chloroquine Sulphate	Pharmaceutical testing, R & D and Method Validation	200mg	Indian Pharmacopoeia Commission, Indian Pharmacopoeia Laboratory, Ghaziabad	Dr. Anuj Prakash lab.ipc@gov.in 0120-2800500/2783392	www.ipc.gov.in
108	CRM	Fluoxetine Hydrochloride	Pharmaceutical testing, R & D and Method Validation	200mg			
109	CRM	Telmisartan	Pharmaceutical testing, R & D and Method Validation	200mg			
110	CRM	Glibenclamide	Pharmaceutical testing, R & D and Method Validation	200mg			
111	CRM	Ethylvanillin	Pharmaceutical testing, R & D and Method Validation	200mg			
112	CRM	Atenolol	Pharmaceutical testing, R & D and Method Validation	200mg			
113	CRM	Chlorthalidone	Pharmaceutical testing, R & D and Method Validation	200mg			
114	CRM	Donepezil Hydrochloride	Pharmaceutical testing, R & D and Method Validation	200mg			
115	CRM	Enalapril Maleate	Pharmaceutical testing, R & D and Method Validation	200mg			



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116	CRM	Metoprolol Tartrate	Pharmaceutical testing, R & D and Method Validation	200mg	Indian Pharmacopoeia Commission, Indian Pharmacopoeia Laboratory, Ghaziabad	Dr. Anuj Prakash lab.ipc@gov.in 0120-2800500/2783392	www.ipc.gov.in
117	CRM	Propranolol Hydrochloride	Pharmaceutical testing, R & D and Method Validation	200mg			
118	CRM	Triamcinolone	Pharmaceutical testing, R & D and Method Validation	200mg			
119	CRM	Mebendazole	Pharmaceutical testing, R & D and Method Validation	200mg			
120	CRM	Levofloxacin	Pharmaceutical testing, R & D and Method Validation	200mg			
121	CRM	Nicotinamide	Pharmaceutical testing, R & D and Method Validation	200mg			
122	CRM	Isoniazid	Pharmaceutical testing, R & D and Method Validation	200mg			
123	CRM	Pyrimethamine	Pharmaceutical testing, R & D and Method Validation	200mg			
124	CRM	Sulphur Matrix : Di Butyl Sulphide in Paraffin liquid light/ Di Butyl Sulphide in 70% Iso Octane and 30% Toluene/ Fuels and lubricants -Base oil/ Mineral Oil/ Liquid Paraffin/ Refinery Fuel Streams	Calibration of Equipment - ED XRF- ASTM D 4294-2016/ ASTM D 7220-2017/ ISO 20847-2004/ ISO 8754-2003/ ISO 13032-2012 WD XRF-ASTM D 2622-2016/ ASTM D 20884:2016 UVF Analyser-ASTM D 5453-2019/ ASTM D7183:2018/ISO 20846:2011	100 ml			
125	CRM	Freezing Point Matrix : ATF/ Blend of petroleum Oils/ Blend of Chemicals	Performance verification of Equipment ASTM D 7153: 2015/ASTM D2386:2019.	250 ml			



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126	CRM	Kinematic Viscosity Matrix: ATF/ Diesel/ Blend of petroleum Oils/ Blend of Chemicals/ Paraffin Liquid/ Base Oil/ Hydrocarbon Oils/ Synthetic Oils	Calibration and or performance verification of Equipment - ASTM D445: 2019/IS 1448 P:25: 2019/ISO 3104: 1994.	500 ml	HPCL, RMP, Quality Control Laboratory, Visakhapatnam	Abhishek Dosodia, hpcrm@hpcl.in, 0891-2826906	NA
127	CRM	Smoke Point Matrix: ATF/ Kerosene/ Blend of Petroleum Oils/ Blend of Chemicals	Performance verification of Equipment ASTM D 1322: 2019/ISO 3014:1993	250 ml			
128	CRM	Total Base Number Matrix: Lubricants/Mineral oils	Calibration and or performance verification of Equipment - ASTM D2896-2015/ASTM D4739:2017/ IS 1448 P:86- 1977/ ASTM D664:2018/ ASTM D974:2021	50 g			
129	CRM	Total Acid Number Matrix: Lubricants/Mineral oil/Petroleum oil	Performance verification of Equipment ASTM D664:2018/ASTM D974:2021	50 g			
130	CRM	Colour ASTM Matrix: Lubricants/ Mineral Oil./Synthetic Oil	Performance verification of Equipment ASTM D 6045-2020/ ASTM D 1500-2017/ IS 1448 Part-12: 2018	500 ml			



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131	CRM	Density Matrix : MS/ Kerosene/ ATF/ Diesel/ Hydrocarbon Solvents/ Fuels and Lubricants - Base Oil/ Mineral Oil/ Liquid Paraffin/ Refinery Fuel Stream	Performance verification of Equipment ASTM D 4052-2018/ ISO 3675-1998/ ASTM D 1298- 2017/ IS 1448 P 16:2019.	500 ml	HPCL, RMP, Quality Control Laboratory, Visakhapatnam	Abhishek Dosodia, hpcrm@hpcl.in, 0891-2826906.	NA
132	CRM	COC Flash point Matrix : Base Oil/ Lubricants/ Hydrocarbon Oils	Performance verification of Equipment ASTM D 92: 2020/IS 1448 P:69: 2019.	250 ml			
133	CRM	Flash Point (PMCC) Matrix : HFHSD/ Lubricants/ Hydrocarbon Solvents	Performance verification of Equipment ASTM D 93: 2020/ISO 2719: 2016/IS 1448 P:21: 2019.	250 ml			
134	CRM	Flash Point (Abel) Matrix : Kerosene/ATF/ Diesel/ Hydrocarbon Solvents	Performance verification of Equipment IS 1448 P20:2019/IP170:2014/ISO 13736:2013.	250 ml			
135	CRM	Colour Saybolt Matrix : Petroleum Oil/ Blend of Chemicals/ Mineral Oil/ Synthetic Oil	Performance verification of Equipment IS 1448 P-14-2019/ ASTM D 6045-2020/ ASTM D 156-2015	500 ml			
136	CRM	AROMATICS Matrix: Petroleum Oil/ ATF	Performance verification of Equipment ASTM D 1319-2020/ IS 1448 Part 23-2016	250 ml			
137	CRM	OLEFINS Matrix: Petroleum Oil/ ATF	Performance verification of Equipment ASTM D 1319-2020/ IS 1448 Part 23-2016	250 ml			



List of Reference Material with NABL Accredited RMP

S. No	RM/CRM	Name of RM/CRM	Purpose/ Intended use	Pack size	Name of RMP	Contact Details	Link of Website
138	CRM	SATURATES Matrix: Petroleum Oil/ ATF	Performance verification of Equipment ASTM D 1319-2020/ IS 1448 Part 23-2016/ISO 3837:1993.	250 ml	HPCL, RMP, Quality Control Laboratory, Visakhapatnam	Abhishek Dosodia, hpcrm@hpcl.in, 0891-2826906.	NA
139	CRM	FBP (Final Boiling Point) Matrix: Petroleum Oil/ Blend of Chemicals/ Mineral Oil	Performance verification of Equipment IS 1448 P18-2020/ ASTM D 86-2020/ ISO 3405-2019.	250 ml			
140	CRM	DISTILLATION IBP Matrix: Petroleum Oil/ Blend of Chemicals/ Mineral Oil	Performance verification of Equipment ASTM D 86: 2020/ISO 3405: 2019/IS 1448 P:18: 2020.	250 ml			
141	CRM	DISTILLATION Recovery % by Vol. at Temp °C Matrix: Petroleum Oil/ Blend of Chemicals/ Mineral Oil	Performance verification of Equipment ASTM D 86: 2020/ISO 3405: 2019/IS 1448 P:18: 2020.	250 ml			
142	CRM	Pour Point Matrix: Petroleum Oil/ Blend of Chemicals/ Mineral Oil/ Synthetic Oil	Performance verification of Equipment IS 1448 P 10 Sec 2: 2018/ ASTM D 97-2017/ ISO 3016- 1994.	250 ml			
143	CRM	Aluminium alloys (Turning Form) - Chemical (Si, Fe, Mg, Cu, Mn, Zn, Pb, Sn, Ni)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
144	CRM	Blast Furnace slag (Powder Form) - Chemical (SiO ₂ , Al ₂ O ₃ , CaO , MgO, Fe (T), S, P, TiO ₂).	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			



List of Reference Material with NABL Accredited RMP

S. No	RM/CRM	Name of RM/CRM	Purpose/ Intended use	Pack size	Name of RMP	Contact Details	Link of Website
145	CRM	Brass (Turning Form) - Chemical (Cu, Zn, Pb, P, Sn, Ni, Fe)	Calibration of analytical equipment , validating and assessing analytical procedure.	100 gms.	CRM UNIT, AAC DIVISION, CSIR- National Metallurgical Laboratory	Dr. A.K.Upadhyay, aku@nmlindia.org, 9931156890	www.nmlindia.org
146	CRM	Cast Iron & Alloy cast Iron (Turning form)- Chemical (C, Si, Mn, P, S, Cr, Cu, Ni, Mg)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
147	CRM	Coal (Powder Form) - Chemical (GCV, Volatile Matter, Ash, Total Sulfur , C, H, N)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
148	CRM	Ferro - chromium (Powder form) - Chemical (Cr, C, Si, P, S)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
149	CRM	Ferro -Manganese (Powder form) – Chemical (Mn, Si, P, C, S,)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
150	CRM	Ferro- Molybdenum (Powder Form) - Chemical (Mo, Si ,P, C, S)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
151	CRM	Ferro-Silicon (Powder form) - Chemical (Si, Al, P, S, C)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
152	CRM	Ferro - Titanium (Powder Form) - Chemical (Ti, Si, Al, P, C, S)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			



List of Reference Material with NABL Accredited RMP

S. No	RM/CRM	Name of RM/CRM	Purpose/ Intended use	Pack size	Name of RMP	Contact Details	Link of Website
153	CRM	Ferro-Vanadium (Powder Form) - Chemical (V, Si, C, P, S, Al)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.	CRM UNIT, AAC Division, CSIR-National Metallurgical Laboratory	Dr. A.K.Upadhyay, aku@nmlindia.org, 9931156890	www.nmlindia.org
154	CRM	High alloy Steel (Disc form or turning form) - Chemical (C, Si, Mn, P, S, Cu, Co, Ni, Cr, Mo, V)	Calibration of analytical equipment, validating and assessing analytical procedure.	1 nos./100 gms.			
155	CRM	Hydrogen (PIN Shape) - Chemical (Hydrogen)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
156	CRM	Iron Ore (Powder Form) - Chemical (Fe[T], SiO ₂ , Al ₂ O ₃ , S, P, TiO ₂)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
157	CRM	Lime Stone (Powder Form) - Chemical (CaO, MgO, SiO ₂ , Fe ₂ O ₃ , Al ₂ O ₃ , LOI, S)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
158	CRM	Manganese Ore (Powder Form) - Chemical ([Mn (T)], [Fe (T)], SiO ₂ , Al ₂ O ₃ , P, S)	Calibration of analytical equipment, validating and assessing analytical procedure.	100 gms.			
159	CRM	Plain Carbon and Low alloy Steel (Disc form or turning form) - Chemical (C, Si, Mn, P, S, Cr, Ni, Cu, Mo, Al, Co, Nb, Ti, V, Zr, B)	Calibration of analytical equipment, validating and assessing analytical procedure.	(1 nos /100 gms.)			



List of Reference Material with NABL Accredited RMP

S. No	RM/CRM	Name of RM/CRM	Purpose/ Intended use	Pack size	Name of RMP	Contact Details	Link of Website
160	CRM	High Speed Diesel (Abel Flash Point, Kinematic Viscosity at 40 deg C, Sulphur)	Calibration / performance verification of equipment for the parameter's 1) Abel Flash Point (IS 1448 P:20/ IP 170) 2) Kinematic Viscosity at 40 deg C (IS 1448 P:25/ASTM D 445 /ASTM D 7042) 3) Sulphur (ASTM D 5453 XRF/Coulometer/ UVF Technique)	500 ml	BPCL RMP, QA Laboratory, Sewree A Installation, Mumbai	N V.R.Kamble kamblevs@bharatpetroleum.in 9586107012	https://www.bharatpetroleum.in/our-businesses/proficiency-testing/reference-material.aspx
161	CRM	Lubricating oil (Kinematic Viscosity at 40 deg C, Kinematic Viscosity at 100 deg C , Flash Point (COC), Pour Point)	Calibration / performance verification of equipment for the parameter's 1) Kinematic Viscosity at 40 deg C (IS 1448 P:25/ASTM D 445 /ASTM D 7042) 2) Kinematic Viscosity at 100 deg C (IS 1448 P:25/ASTM D 445 /ASTM D 7042) 3) Flash Point,COC (IS 1448 P :69 / ASTM D 92) 4) Pour Point (IS 1448 P:10 / ASTM D 97)	500 ml			
162	CRM	Aviation Turbine Fuel (Abel Flash Point, Freezing Point, Smoke Point, Sulphur) Matrix : Aviation Turbine Fuel	Calibration / performance verification of equipment for the parameter's 1) Abel Flash Point (IS 1448 P:20/ IP 170) 2) Freezing Point (IS 1448 P:11/ASTM D 2386) 3) Smoke Point (IS 1448 P:31 /ISO 3014 /IP 598/ ASTM D 1322) 4) Sulphur (XRF/Coulometer/ UVF Technique as per ASTM D 4294 /ISO 20847/ ASTM D 5453)	500 ml			

For more details of RMP, refer Document NABL 800, Directory of Accredited Reference Material Producers.

NA-Not available



List of Reference Material with NABL Accredited RMP

S. No	RM/CRM	Name of RM/CRM	Purpose/ Intended use	Pack size	Name of RMP	Contact Details	Link of Website
163	CRM	Lubricating oil (Total Acid No (TAN ,Total Base no.TBN)	Calibration / performance verification of equipment for the parameter's 1) Total Acid No (IS 1448, P- 1/ ASTM D 664) 2) Total Base No (IS 1448, P:86 /ASTM D2896)	250 ml	BPCL RMP, QA Laboratory, Sewree A Installation, Mumbai	N V.R.Kamble kamblevs@bharatpetroleu m.in 9586107012	https://www.bharatpetroleum.in/our-businesses/proficiency-testing/reference-material.aspx
164	CRM	Gasoline / Diesel/ Aviation Turbine Fuel (Distillation Standard IBP,10%,20%,30%,40 %,50%,60%,70%,80% ,90%,95%, FBP)	Calibration / performance verification of equipment for the parameter's 1) Distillation, Deg C , IBP, 10% ,20%, 30%, 40%, 50%,60%,70%,80%,90%,95%, FBP. (IS 1448, P:18 / ASTM D 86)	500 ml			
165	RM	Potassium Dichromate	Standardization of volumetric solutions.	45 gm	Dove Research & Analytics Unit-II (RMP Division), Panchkula	Mr. Anil Arya/Prakriti Arya dove17034@gmail.com 9876471976/7558317955	www.doveresearchlab.com
166	RM	Caffeine	Calibration of the HPLC equipment.	2gm			
167	RM	Potassium hydrogen phthalate	Use as a primary standard.	45 gm			
168	RM	Sodium chloride	Use as a primary standard.	45gm			
169	RM	Sulfanilamide	Calibration of equipments.	2 gm			
170	RM	Vanillin	Calibration of Melting Point Apparatus.	2 gm			
171	RM	Sodium carbonate	Use as a primary standard	45 gm			



List of Reference Material with NABL Accredited RMP

S. No	RM/CRM	Name of RM/CRM	Purpose/ Intended use	Pack size	Name of RMP	Contact Details	Link of Website
172	CRM	Aluminium Alloy in Disk form, Chemical: Fe, Si, Mg, Ti	For use with spark OES instruments for analysis of aluminium alloys for calibration, type standardizing, control standards and method validation.	Solid Disc (48 ± 2 mm diameter & 25 ± 2 mm thickness)	JNARDDC, Nagpur	R N Chouhan rnchouhan@jnarddc.gov.in 7104-299556	https://jnarddc.gov.in/CRM.aspx
173	CRM	Aluminium Alloy in Disk form, Chemical: Fe, Si, Mg, Zn, Cu, Mn, Cr, Ti	For use with spark OES instruments for analysis of aluminium alloys for calibration, type standardizing, control standards and method validation.	Solid Disc (48 ± 2 mm diameter & 25 ± 2 mm thickness)			
174	CRM	Aluminium Alloy in Disk form, Chemical: Fe, Si, Mg, Zn, Cu, Mn, Cr, Ti	For use with spark OES instruments for analysis of aluminium alloys for calibration, type standardizing, control standards and method validation.	Solid Disc (48 ± 2 mm diameter & 25 ± 2 mm thickness)			
175	CRM	Aluminium Alloy in Disk form, Chemical: Fe, Si, Mn, Mg, Cu, Cr	For use with spark OES instruments for analysis of aluminium alloys for calibration, type standardizing, control standards and method validation.	Solid Disc (48 ± 2 mm diameter & 25 ± 2 mm thickness)			
176	CRM	Hydrocarbon Matrix (Density, Flash Point, Kinematic Viscosity at 40 deg C & Sulphur)	Calibration / Performance Verification of Equipment.	500 mL	IOC-RMP	Manoj K Shukla iocrmp@indianoil.in	8095630816