

DETAILS OF TEST FACILITIES AVAILABLE AT NTH (ER), KOLKATA

NAME OF LABORATORY	PRODUCT/ MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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CHEMICAL – METAL Carbon Steel Carbon, Sulphur, Phosphorous, IS : 228

Alloy Steel Silicon, Manganese.
Carbon, Sulphur, Phosphorous, IS:228
Manganese, Nickel, Chromium
Tungsten, Vanadium,
Molybdenum, Cobalt,
Copper

Cast Iron, Pig Iron Total Carbon, Graphitic, IS:228
Carbon, Combined Carbon
Silicon, Manganese, Sulphur,
Phosphorous

Ferro-Chrome Full tests IS:1170

Ferro-Manganese Full tests IS:1171

Ferro- Molybdenum Full tests IS:1469

Ferro-Niobium Full tests IS:3014

Fero-Phosphorous Full tests IS:1471

Ferro-Silicon Full tests IS:1110

Ferro-Tungsten Full tests IS:1467

Ferro-Vanadium Full tests IS:1466

Aluminium, Full tests IS:20

Aluminium alloy
like cast aluminium
for utensil

Wrought Full tests IS:21

aluminium for
utensil

Aluminium and Full tests IS:617

Aluminium alloy Full tests IS:737

Ingots and casting Full tests IS:737

for general
engineering
purpose, Wrought
Aluminium and
Aluminium alloys
plate for general
engineering
purpose

Antimony metal	Full tests	IS:211	
Brass & Bronzes	Copper, Tin, Lead , Iron	as per	
Gun metal	Zinc, Nickel, Manganese,	standard	
		method of	test

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Cupro-Manganese, Cupro-Nickel, Silicon-Bronze, Aluminium-Bronze, Monel Metal, Bell-Metal, German Silver	Aluminium, Silicon, Antimony, Phosphorous, Arsenic	As per standard method of test	
Copper Alloys	Cadmium, Arsenic, Bismuth, Lead, Phosphorous, Silver.	Do	
Lead & Lead Alloys	Full tests	IS:27	
Antimonial Lead	Full tests	IS:1654	
Tin Metal	Full tests	IS:26	
Tin Alloy	Full tests	IS:1357	
Type Metal			
Soft Solder	Full tests	IS:193	
Antifriction Bearing Alloy	Full tests	IS:25	
White Metal, Babbit-Metal, wood's alloy	Full tests	As per standard method of test	
Zinc Metal, Zinc Alloys, Diecasting	Full tests	IS:209	
Silver	Full tests	As per standard method of test	Gold laces
Gold	Gold, Silver Full tests	IS:9925 As per standard method of test	
Iron Ores. manganese Ore. Copper Ore,	Full tests	As per standard method of test	

Galena, Bauxite Kyanite Silimanite, Illemenite, Quartz, Mica, Soapstone, Barytes, Talc, China Clay. Fullers, Earth, Pagmetite, Rock Silicate	Full tests	As per standard method of test
Lime Stone, Dolomite, Gypsum, Selenite	Full tests	IS:4140
Magnesium Metal	Full tests	As per standard method of test
Mercury Metal	Mercury and Vanadium content	As per Analaror B. P. Standard
Rutile	Full tests	IS:4104
Galvanization test	Mass of zinc coating in g/m ²	IS:2633
Chemical, OIL & FUEL	Calorific value of coal/coke	Full tests IS:1350(II) 1970
	Proximate analysis of coal/coke	Full tests IS :1350(I) 1984
	Determination of sulphur in coal/coke	Full tests IS:1350(III) 1969
	Determination of Phosphorous in coal/coke	Full tests IS;1350(V) 1979
	Graphite, flake for Lubricants	Full tests IS:495-1967
	Graphite for use as foundry facing material	Full tests IS:1305-1963
	Petroleum coke	Full tests IS:85002- 1977
	Paving Bitumen	Full tests IS:73-1992
Industrial Bitumen	Full tests IS:702-1988	
Bitumen Emulsion for	Full tests IS:8887-1995	

	roads (Cationic type)		
	Bitumen Emulsion	Full tests	IS:3317-1965
Bitumen Mastic for flooring		Full Tests	IS : 1195-1978
Bitumen Mastic for water proofing on roofs		Full tests	IS:3037-1986
Bitumen Mastic for Bridge Decking or roads		Full tests	IS:5317-1969
Hot applied sealing compounds for joints in concrete		Full tests	IS:1834-1984
Sealing compound for Lead Acid Batteries		Full tests	IS:3116-1965
Creosote oil for use as wood preservatives (Type I & II)		Full tests	IS:218-1983
Crude coal tar for general use		Full tests	IS:212-1983
Road Tar		Full tests	IS:215-1981
Coal Tar pitch		Full tests	IS:216-1961
Cut back Bitumen		Full tests	IS:217-1961
Preformed fillers for expansion joints		Full tests	IS:1838-1983
Anthracene oil		Full tests	IS:218-1983
Linseed oil raw & refined		Full tests	IS:75-1973
Linseed Oil , boiled for paints		Full tests	IS:77-1976
Tung oil for paints		Full tests	IS:80-1991
Dehydrated Castor oil for paints		Full tests	IS:81-1989
Oil Cylinder Automotive		Full tests	IS:1589-1994
		Full tests	IS:8654-1986

hydraulic brake fluid		
Oil of Lemon	Full tests	IS:327-1991
grass		
Oil for Eucalyptus	Full tests	IS:328-1992
Oil of Sandalwood	Full tests	IS:329:1993
New insulating oils	Full tests	IS:335-1993
Grease No. O, graphited	Full tests	IS:408-1981
Castrol oil	Full tests	IS:435-1973
General Purpose machinery and spindle oil	Full tests	IS:493(I)-1981
General purpose machinery & spindle oil	Full tests	IS:439(II) 1981
Internal combustion engine crankcase (gasoline and diesel)	Full tests	IS:13656-1993
Oil of citronella	Full tests	IS:512-1988
Palmarosa oil	Full tests	IS:526-1988
Oil of Turpentine	Full tests	IS:533-1973
Coconut oil	Full tests	IS:542-1968
Cottonseed oil	Full tests	IS:543:1968
Groundnut oil	Full tests	IS:544-1968
Mahua oil	Full tests	IS:545-1968
Mustard oil	Full tests	IS:546-1975
Sesame oil	Full tests	IS:547-1968
Geranium oil	Full tests	IS:587-1968
Mosquito larvicidal oil	Full tests	IS:588-1988
Blown rape (or mustard) oil	Full tests	IS:595-1954 (Reaffirmed 1992)
Automotive and other general purpose	Full tests	IS:506-1993
General purpose grease for defence application	Full tests	IS:507-1993

Grease, graphited	Full tests		IS:508-1993
Antifriction bearing grease	Full tests		IS:719-1990
Locomotive grease	Full tests		IS:720-1986
Oil of ginger	Full tests	IS:761-1988	

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Sealing wax	Full tests		IS:868-1956
Animal tallow	Full tests		IS:887-1977
Lithium base grease for industrial purpose	Full tests		IS:7623-1993
Turbine Indicating oil	Full tests		IS:1012-1987
Industrial white oil	Full tests		IS:1083-1978
Lubricants for clock like mechanisms and precision instruments	Full tests		IS:1088-1987
Cutting oil Soluble	Full tests		IS:1115-1994
Gear lubricants Multripurpose gear lubricants multripurpose	Full tests		IS:1116-1994
Oil of vetiver roots	Full tests		IS:1118-1992
Kerosine	Full tests		IS:1177-1996
Diesel fuels	Full tests		IS:1459-1974
Bess wax, crude & refined	Full tests		IS:1460-1995
Aviation turbine fuels, kerosine type	Full tests		IS:1571-1992
Motor gasoline	Full tests		IS:2796-1995

Aviation turbine fuels high flash point type	Full tests	IS:1587-1984
Oil, cylinder	Full tests	IS:1589-1994
Fuel oils	Full tests	IS:1593-1982
Aviation gasoline	Full tests	IS:1604-1994
Axle oil	Full tests	IS:1628-1986
Stearic acid technical	Full tests	IS:1675-1971
Oleic acid, technical	Full tests	IS:1676-1960
Shoe polish, paste	Full tests	IS:1746-1992
Jute patching oil	Full tests	IS:1758-1986
Vegetable tallow	Full tests	IS:1780-1961
Citral	Full tests	IS:1799-1981

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Geraniol	Full tests	IS:1800-1989
Citronellol	Full tests	IS:1801-1989
Cutting oil, neat	Full tests	IS:3065-1985
Oil, hydraulic mineral oil type	Full tests	IS:3098-1983
Terpineol	Full tests	IS:3124-1975
Musk ambrette	Full tests	IS:3131-1986
Menthol	Full tests	IS:3134-1965
Musk xyol	Full tests	IS:3145-1986
Oil of celery seed	Full tests	IS:3146-1991
Linalyl acetone	Full tests	IS:3180-1965
Musk ketone	Full tests	IS:3228-1986
Sorbitol solution (70 percent) for cosmetic industry	Full tests	IS:3987-1983
Geranyl acetate	Full tests	IS:3241-1985
Ricebran oil	Full tests	IS:3448-1984
Sunflower oil	Full tests	IS:3491-1965
Ghee	Full tests	IS:3508-1966
Water soluble sodium Carboxymethyl cellulose	Full tests	IS:3520-1979

Oil mineral colza	Full tests	IS:3433-1965
Oil seeds	Full tests	IS:3579-1966
Camphor	Full tests	IS:3584-1984
Tea	Full tests	IS:3633-1972
Foundry core oils requiring baking	Full tests	IS:3666-1966
Ball point pen refils	Full tests	IS:3707-1984
Beer	Full tests	IS:3865-1978
Methyl cinnamate	Full tests	IS:3926-1986
Isobutyl phenyl acetate	Full tests	IS:3927-1986
Styraly acetate	Full tests	IS:3928-1986
Skin powder	Full tests	IS:3959-1966
Cutch	Full tests	IS:3967-1975
Sodium lauryl sulphate for cosmetic industry	Full tests	IS:3986-1988
Bees wax, bleached for cosmetic industry	Full tests	IS:4028-1982
Neatsfoot oil	Full tests	IS:4054-1966

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Kusum oil	Full tests	IS:4088-1977
Dextrin for use in foundries	Full tests	IS:4269-1981
Vanillin	Full tests	IS:4272-1986
Soyabean oil	Full tests	IS:4276-1977
Sunflower oil	Full tests	IS:4277-1975
Kattha	Full tests	IS:4359-1967
Lubricating oils for refrigeration machinery	Full tests	IS:4578-1989
Phenyl ethyl alcohol	Full tests	IS:4603-1991
Ethyl Para Hydroxybenzoate for cosmetic industry	Full tests	IS:4652-1987

Paraffin wax	Full tests	IS:4654-1993
Neem Kernal oil and depulped neem seed oil	Full tests	IS:4765-1975
Leather sole and edge wax polished	Full tests	IS:4779-1985
Petrolium jelly for cosmetic industry	Full tests	IS:4887-1980
Honey	Full tests	IS:4941-1974
Household laundry detergent powders	Full tests	IS:4955-1993
Foam concentrate (compound) for producing mechanical foam for fire fighting, Part - I, Protein foam,	Full tests	IS:4989(I) 1985
Foam concentrate for producing mechanical foam for fire fighting Part - 2, Aqueous film forming foam (AFFF)	Full tests	IS:4989 (II)- 1984 (Reaffirmed 1995)
Foam concentrate	Full tests	IS:4989(III)-

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(compound) for producing mechanical foam for fire fighting part - 3 fluoro protein foam		1987
Phthalic anhydride technical	Full tests	IS:5158-1987
Chloroform, Pure	Full tests	IS:5296-1995

& Technical		
Floor polish, liquid	Full tests	IS:5481-1992
Metal polish, liquid	Full tests	IS:5487-1992
Ethylene oxide	Full tests	IS:5573-1984
Monochloro acetic acid	Full tests	IS:5592-1981
Tobacco seed oil	Full tests	IS:5614-1981
Oil of Pine	Full tests	IS:5757-1992
Antifreeze coolant	Full tests	IS:5759-1992
Metal polish, paste	Full tests	IS:5969-1992
Ball point pen ink	Full tests	IS:5805-1970
Raw sugar	Full tests	IS:5975-1970
Plantation white sugar for identification from other sugar	Full tests	IS:5982-1970
Para- Dichlorobenzene, technical	Full tests	IS:5992-1970
Emulsifiable larvicideal oil	Full tests	IS:6014-1978
Pyrethrum based Paraformal dehyde	Full tests	IS:5271-1984
Country spirit	Full tests	IS:5287-1969
Ethylene glycol	Full tests	IS:5295-1985
Perchloro ethylene (Tetrachloro ethylene)	Full tests	IS:5297-1969
Lanolin,	Full tests	IS:5340-1969

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	anhydrous for cosmetic industry		
	Dextrine for use in textile industry	Full tests	IS:5448-1969
	Vegetable tanning materials	Full tests	IS:5466-1969
	Shellac wax	Full tests	IS:5467-1969
	Metal polish, liquid	Full tests	IS:5487-1969
	Automobile polish paste	Full tests	IS:5480-1983
	Silver polish liquid	Full tests	IS:6271-1992
	Oil of turpentine, solvent grade	Full tests	IS:6646-1972
	Oil of cinnamon leaf	Full tests	IS:6699-1989
	Wax-Emulsion sole leather polish	Full tests	IS:6945-1994
	Coconut diethanolamide	Full tests	IS:7101-1994
	Hair oils	Full tests	IS:7123-1993
	Henna powder	Full tests	IS:7159-1984
	Mineral oil for cosmetic industry	Full tests	IS:7299-1974
	Paraffin wax for explosive and pyrotechnic industry	Full tests	IS:7401-1974
	Soft soap	Full tests	IS:7523-1974
	Hexachloro ethane	Full tests	IS : 7618-1974
	Calcium propionate, Food grade	Full tests	IS :6031-1971
	Scouring Powder	Full tests	IS : 6047-1970
	Temporary corrosion preventive, Soft film hot dipping type	Full tests	IS : 6050-1971
	Interfacial tension of oil against water	Full tests	IS : 6104-1971
	Shoe Cream	Full tests	IS : 6350-1985

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	Tooth paste	Full tests	IS:6356-1978
	Neutral spirit for alcoholic drink	Full tests	IS:6613-1972
	Dimethyl Phthalate Plasticizer	Full tests	IS:6627-1972
	Gear lubricants for enclosed industrial gear drives	Full tests	IS:8406-1985
	Household laundry detergent bar	Full tests	IS:8180-1982
	Balmolein 1977	Full tests	IS: 8361 E-
	Alkayl benzene sulphonic acid	Full tests	IS:8401-1977
	Glass cleaner, liquid	Full tests	IS:8540-1986
	Polish, paste for floor and wooden furniture	Full tests	IS:8541-1993
	Polish for wooden furniture, paste	Full tests	IS:8542-1977
	Kokum fat	Full tests	IS:8591-1980
	Neem cake for manuring	Full tests	IS:8558-1977
	Automotive hydraulic brake fluid, heavy duty	Full tests	IS:8654-1986
	Refined automotive internal combustion engine lubricating oil	Full tests	IS:9048-1982
	Calcium complex grease	Full tests	IS:9136-1978
	Lubricants for wire ropes and	Full tests 1979	IS:9182-(I)-

fibres cores		
Lubricants for wire ropes and fibres cores	Full tests 1979	IS:9182(II)-
	1979	IS:9182(III)-

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Synthetic detergent for washing woolen & other delicate fabrics	Full tests	IS:9458-1980
Industrial liquid lubricants	Full tests	IS:9466-1980
Lubricants for open gears	Full tests	IS:9554-1980
Cutting oil soluble, clear	Full tests	IS:9611-1980
Spent coffee grounds fat	Full tests	IS:9616-1980
Iso-Butyl alcohol	Full tests	IS:9834-1981
Glycerol monostearate, food grade	Full tests	IS:9953-1981
Rubber seed oil	Full tests	IS:9955-1981
Sodium alkyl benzene sulphonate, technical	Full tests	IS:9985-1981
Grading for Dhupa Kernels for oil milling	Full tests	IS:9993-1981
Polish, liquid 1981 (white), for canvas foot wear	Full tests	IS:10025-
Lipsalve 1982	Full tests	IS:10284-
Automotive 1982 internal	Full tests	IS:10356-

combustion engine lubricating oils from base stocks of mixed crude Para - 1982	Full tests	IS:10377-
Phenylenediamine Fire resistant hydraulic fluids	Full tests	IS:10532(I) 1983
Fire resistant hydraulic fluids	Full tests	IS:10532(II) 1983
Fire resistant hydraulic fluids	Full tests	IS:10532(III) 1983

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Fire resistant hydraulic fluids Vanaspati 1986	Full tests	IS:10532(IV) 1983
Bakery 1986 shortening	Full tests	IS:10633- IS:10634-
Acctophenone 1986	Full tests	IS:10634-
Lauric acid 1984	Full tests	IS:10931-
Palmitic acid 1984	Full tests	IS:10932-
Myristic acid 1984	Full tests	IS:10933-
Bindi (liquid) 1984	Full tests	IS:10998-
Kumkum power 1984	Full tests	IS:10999-
Borax for 1984 cosmetic industry	Full tests	IS:11023-
Criteria for 1984	Full tests	IS:11068-

edibility of oil & fat (RBHWD) 1984	Full tests	IS:11069-
Soyabean oil		
Henna Powder 1984	Full tests	IS:11142-
Synthetic 1985	Full tests	IS:11186-
grinding fluid		
Phenyl 1984	Full tests	IS:11355-
Napthylamine		
Fuel oil for use in 1985	Full tests	IS:11488-
Marine diesel engines		
Heavy petroleum 1985	Full tests	IS:11489-
stocks		
Inhibited type 1986	Full tests	IS:11695-
machinery oils		
Inhibited type 1986	Full tests	IS:11696-
spindle oils		
Shoe polish 1987	Full tests	IS:12010-
liquid		
Semi-acid oil 1986	Full tests	IS:12030-

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Soap stock	Full tests	IS:12031-1986
Palm fatty acids	Full tests	IS:12067-1987
Ricebran fatty acid	Full tests	IS:12068-1987
Coconut fatty acids	Full tests	IS:12069-1987
Aluminium polish for liquid for	Full tests	IS:12123-1987

**CHEMICAL
GENERAL**

air craft		
Rubber seed fatty acids	Full tests	IS:12124-1987
Lithium base grease for automotive purpose	Full tests	IS:12203-1987
Fountain pen ink	Full tests	IS:220-1988
Ferro-Gallo Tannage (0.1 percent iron content)		
Ethyl acetate	Full tests	IS:229-1993
Trichloro ethylene, technical	Full tests	IS:245-1988
Boric acid for cosmetic industry	Full tests	IS:263-1990
Laundry soaps	Full tests	IS:285-1992
Rectified spirit	Full tests	IS:323-1959
Oil of eucalyptus globules	Full tests	IS:328-1992
Pentachloro phenol	Full tests	IS:716-1987
Acetic anhydride	Full tests	IS:1235-1988
Laundry soap powders/Flakes	Full tests	IS:2887-1983
Perfumery materials resinoid benzene	Full tests	IS:3349-1989
Sodium hypochlorite solution	Full tests	IS:11673/92
Fluorspar	Full tests	IS:2411/63
Pottassium	Full tests	IS:333/80

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	permanganate Cement (Chemical analysis)	Full tests	IS:269/89 455/89 1498/91 8112/89, 12269/87,
		8042/89,6452/	89,6909/90, 8041/90
	Cement Concrete/Mortar, Designation Plaster	Cement, sand and aggregate ratio, cement and sand ratio	ASTM C85-66(Re-
		approved	1973)
	Coarse and fine aggregate test/stone for concrete	Deleterious materials organic impurities	IS:383/1970
	Chemical resistant Motor	Sulphur	IS:4456(P-2)/ 67, 4832(P-3)/ 68
	Loose Mineral wool and Glass Wool	Sulphur	IS:3144/92
	Integrated cement chloride and water proofing compound	IS:2645/75 sulphate	Water soluble
	Water soluble Inorganic wood preservatives	Copper-Chrome & Boric acid	IS:401/82
	Building lime	Full tests	IS:712/84
	Stone aggregates	Alkali aggregate reactivity (Potential reactivity)	IS:2386(P-VII)/63
	Asbestos cement	Resistance to acid test	IS:459/62

sheet/Building pipes			
Ceramic unglazed vitreous acid resistant	-do-		IS:4457/67
Salt glazed stone wares pipe & fittings	-do-		IS:651/80
Chemically resistant salt glazed stone ware	Resistance to acid & alkali		IS:3006/65

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pipe and fittings			
Acid resistance bricks	Resistance to acid		IS:4860/68
Coarse and fine aggregates/sand/stone aggregates	Soundness test (with sodium sulphate & magnesium sulphate)		IS:383/70 2386/2(P-V)/63
Fire bricks	Full chemical requirements		IS:6/83
Sodium chloride (common salt)	-do-		IS:253/70, 7972/67, 4408/67
Aluminium Ammonium Sulphate (Ammonium Alum)	Full chemical requirements		IS:259/69
Aluminium Power (for explosives)	Full chemical requirements		IS:438/72
Aluminium Sulphate (non ferric alum)	Full chemical requirements		IS:260/69
Alumino ferrie (Ferric Alum)	Full chemical requirements		IS:299/89
Ammonia Liquor	Full chemical requirements		IS:799/78
Ammonium Chloride	Full chemical requirements		IS:1113/65
Ammonium Nitrate	Full chemical requirements		IS:4668/67

Activated Alumina	Full chemical requirements	IS:9700/91
Barium Chloride	Full chemical requirements	IS:5288/69
Blanco	Full chemical requirements	IS:5468/69
Bleaching Powder	Full chemical requirements	IS:1065/89
Boiler water treatment compound	Full chemical requirements	IS:79232/82
Copper Sulphate	Full chemical requirements	IS:261/82
Copper Nitrate	Full chemical requirements	IS:10895/84
Calcium Carbonate	Full chemical requirements	IS:917/76 918/68
Calcium Chloride	Full chemical requirements	IS:1314/84
Caustic Soda (Sodium Hydroxide)	Full chemical requirements	IS:252/91, 376/86
Synthetic Extractable iron, manganese,		IS:6071/86

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separators for chloride lead acid batteries		
Hydrochloric	Full tests	IS:265/93
Ferrous Sulphate	Full tests	IS:262/67
Lead Oxide	Full tests	IS:12292/88
Magnesium Chloride	Full tests	IS:254/62
Magnesium Sulphate	Full tests	IS:2730/77
Manganese Dioxide	Full tests	IS:5713/70
Nickel Salt for Electro Plating	Full tests	IS:1809/80
Phosphorous red	Full tests	IS:2012/61
Potassium Bichromate	Full tests	IS:250/64
Potassium Cyanide	Full tests	IS:6358/71
Potassium metabisulphite	Full tests	IS:500/63
Silver Nitrate (Photographic)	Full tests	IS:2318/74

grade		
Silver Nitrate (Pure & AR Grade)	Full tests	IS:2214//62
Soda Lime	Full tests	IS:5321/69
Sodium Aluminate	Full tests	IS:4200/67
Sodium Bichromate	Full tests	IS:2124/62, 249/79
Sodium Carbonate	Full tests	IS:296/74
Sodium Hydrosulphite	Full tests	IS:1919/61
Sodium Sulphate (Anhydrous)	Full tests	IS:255/82
Sodium Sulphide	Full tests	IS:297/70
Trisodium Phosphate	Full tests	IS:537/92
Glassy Sodium Metaphosphate	Full tests	IS:574/89
Sodium Tri Polyphosphate	Full tests	IS:6100/84

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	Strontium Nitrate	Full tests	IS:5671/84
	Tin Salt for Electro Plating	Full tests	IS:3026/68
	Zinc Chloride	Full tests	IS:701/66
	Zinc Oxide for cosmetic industry	Full tests	IS:2850/77
	Zinc oxide for Electro Plating	Full tests	IS:1880/67
	Zinc Oxide for Rubber Industry	Full tests	IS:3399/65
	Fly Ash	Full tests	IS:3812/81
	Sulphuric Acid	Full tests	IS:266/93
	Nitric Acid	Full tests	IS:264/68
	Disinfectant Fluids	Full tests	IS:1061/97
	Deodourising cum-Disinfectant	Full tests	IS:10758/83

Fluids			
Ammonium Chloride	Full tests		IS:1114/64
Ammonium Phosphate Sulphate	Full tests		IS:4830/68
Ammonium Phosphate Sulphate Granular	Full tests		IS:5407/69
Ammonium Phosphate. Sulphate, Nitrate	Full tests		Fertilizer control Act 1985
Ammonium Sulphate	Full tests		IS:826/80
Ammonium Sulphate Nitrate	Full tests		IS:256/62
Bone Meal (Raw)	Full tests		IS:853/64
Calcium	Full tests		IS:2409/71
Ammonium Nitrate			
Complex Fertilizer (NPK)	Full tests		Fertilizer Control Act 1957
Diammonium Phosphate	Full tests		IS:6448/71
Fused Calcium Magnesium Phosphate	Full tests		IS:5408/69

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	Nitrophosphate with Potash	Full tests	Fertilizer Control Act- 1957
	Nitrophosphate Gypsum for Agriculture use	Full tests Full tests	IS:7131/73 IS:6046/71
	Potassium Chloride (Murate of Potash)	Full tests	IS:2779/80
	Rock Phosphate Fertilizer Control	Full tests	Fertilizer Control Act

Order		1957
Sulphate of Potash	Full tests	IS:2764/64
Superphosphate	Full tests	IS:294/79
Superphosphate (Tripple)	Full tests	IS:1013/72
Urea (Tech & Pure)	Full tests	IS:1781/75
Urea Ammonium Phosphate	Full tests	Fertilizer control Act 1957
Zinc Sulphate (Agriculture Grade)	Full tests	IS:8249/76
Industrial Effluent water	Full tests	IS:2490
Carbon Dioxide Compressed	All tests except oil content	IS:307/83
Oxygen for Oxygen content only	All tests except moisture	IS:309/92
Dissolved Acetylene (Industrial use)	Full tests	IS:308/88
Nitrogen Technical	Full tests	IS:1747/72
Medical Oxygen	Full tests	IP
Chlorpyrifos 20% E. C.	Full tests	IS:8944-78
Quinalphos E. C. Dusting powder, Tech.	Full tests	IS:8028/87 2029/76 8072/76
Aluminium Phosphide Tablet	Full tests	IS:6438

NAME OF THE LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/C ALIBRATION FACILITIES AVAILABLE	REMARKS
	Formulation Pesticide - Aluminium Phosphide Tablet		
	BHC Tech & Refined	Full tests	IS:560/80
	BHC (HCH) Dusting Powder	Full tests	IS:561/78
	BHC (HCH) Emulsifiable Concentrate	Full tests	IS:632/78
	BCH (HCH) water Dispersible	Full tests	IS:562/78
	Chlordane Dusting Powder	Full tests	IS:2864/64
	Chlordane Emulsifiable Concentrate	Full tests	IS:2682/66
	Chlordane, Tech, Copper	Full tests Full tests	IS:2863/64 IS:1506/67
	Oxychloride Dusting Powders		
	Copper Oxychloride water dispersible Powder	Full tests	IS:1507/77
	Copper Oxychloride, Tech	Full tests	IS:1486/78
	Cuprous Oxide, Tech,	Full tests	IS:1682/73
	D. D. T. Tech.	Full tests	IS:563/73
	D. D. T. Dusting Powders	Full tests	IS:564/84
	DDT Emulsifiable Concentrate	Full tests	IS:663/64
	DDT Water dispersible	Full tests	IS:565/75

Powder concentrates Diazinon Emulsifiable Concentrate	Full tests	IS:2861/80
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NAME OF THE LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/C ALIBRATION FACILITIES AVAILABLE	REMARKS
	Diazinon Water dispersible Powder	Full tests	IS:2862/64
	Diazinon, Tech	Full tests	IS:1833/80
	Dichloroves Emulsifiable concentrate	Full tests	IS:5277/78
	Simazine, Tech	Full tests	IS:1415/94
	Dichlorovos, Tech	Full tests	IS:4929/68
	Phosphamidon water soluble concentrate/ Demi cron (W. S. C.	Full tests	IS:6177/81
	Quinalphos Dusting powder	Full tests	IS:8029/76
	Quinalphos, Tech.	Full tests	IS:6444/79
	Sulphur Dusting Powder	Full tests	IS:3383/82
	Sulphur Powder wettabke	Full tests	IS:3905/66
	Thirteen Emulsifiable	Full tests	IS:3904/66

concentrate Thiometon	Full tests	IS:4783/68
concentrate Thiram Seed Dressing Formulation	Full tests	IS:4320/67
Thiram water dispersible Powder	Full tests	IS:4451/67
Thiram, Tech	Full tests	IS:4320/67
Toxaphene, Tech	Full tests	IS:4451/67
Dicofol Emulsifiable concentrate	Full tests	IS:5279/69
Dicofol Tech	Full tests	IS:5278/69
Dieldrin Tech.	Full tests	IS:1052/62
Dimethoate Emulsifiable concentrate	Full tests	IS:3903/75
Dimethoate, Tech	Full tests	IS:3902/75
E. D. C. T. Tech	Full tests	IS:634/65

NAME OF THE LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/C ALIBRATION FACILITIES AVAILABLE	REMARKS
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Endosulfan Dusting powder	Full tests	IS:4322/67
Endosulfan Emulsifiable concentrate	Full tests	IS:4323/80
Endosulfan Water dispersible powder	Full tests	IS:4324/67
Endosulfan, Tech	Full tests	IS:4344/78
24-D, Ethyl Ester Emulsifiable concentrates	Full tests	IS:10243/82
Carbofuran granules, encapsulated	Full tests	IS:9360/80
Ethyl Parathion, Tech.	Full tests	IS:2128/73

Ethylene Dibromide	Full tests	IS:1311/66
Fenitrothion Emulsifiable concentrate	Full tests	IS:5281/79
Fenitrothion, Tech.	Full tests	IS:5280/69
Formothion Emulsifiable concentrate	Full tests	IS:8026/76
Formothion, Tech.	Full tests	IS:8024/76
Heptachlor Dusting Powder	Full tests	IS:6429/72
Heptachlor Emulsifiable concentrate	Full tests	IS:6439/78
Heptachlor, Tech	Full tests	IS:6432/72
Malathion Dusting Powder	Full tests	IS:2568/73
Malathion Emulsifiable concentrate	Full tests	IS:2567/63
Malathion water dispersible powder	Full tests	IS:2569/63
Malathion Tech,	Full tests	IS:1832/61
Methyl Parathion,	Full tests	IS:2570/63

NAME OF THE LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/C ALIBRATION FACILITIES AVAILABLE	REMARKS
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Tech		
Propoxur, Tech	Full tests	IS:8496/77
Phorate Tech	Full tests	IS:7976/76
Phorate Granules Encapsulated	Full tests	IS:9359/80
Mancozeb, Tech	Full tests	IS:8707/78
Mancozeb, Water dispersible powder concentrates	Full tests	IS:8708/78

Zinc phosphide, Tech	Full tests	IS:1251/73
Ziram water dispersible powder	Full tests	IS:3901/75
Ziram, Tech water for concrete mixture	Full tests Full tests	IS:3900/75 IS:456/78
Water for industrial purpose	Full tests	IS:3550/65
Water for land Boilers	Full tests	IS:1680/82
Water for Locomotive Boilers	Full tests	IS:2859/77
Water for Marine Boilers	Full tests	IS:1813/61
Water for Paper & Pulp Industry	Full tests	IS:2724/64
Water for Rayon Industry	Full tests	IS:2725/64
Water for storage Batteries	Full tests	IS:1069/64
Water for Swimming Pools	Full tests	IS:3328/65
Water for Tanning Industry	Full tests	IS:4221/67
Water for Textile industry	All tests except Bacteriological test	IS:201/64
Water, Distilled quality	Full tests	IS:1070/77
Drinking water	Full tests	ICMR (1975)
Mineral Water to IS	All test except radioactive residue, Pesticides residue, PCB and some micro organisms.	IS:13428/98

NAME OF THE LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/C ALIBRATION FACILITIES AVAILABLE	REMARKS
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Drinking water purifying equipment (UV and Non-UV)	Bacteriological efficacy test
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**CHEMICAL
PAINT**

system) UPVC Casing pipe (Effect on water test)	All tests	IS:12818/92 (cl. No. 9.7) and 4958/88
Dry pigments for paints		
Zinc Oxide	All tests	IS:35/1976
Carbon black	All tests	IS:40/1971
Iron Oxide	All tests	IS:44/1991
Lead and Scarlet chrome	All tests	IS:50/1980
Zinc Chrome	All tests	IS:51/1979
Brunswick Green	All tests	IS:53/1988
Ultramarine blue	All tests	IS:55/1970
Prussion blue	All tests	IS:56/1993
Red Lead	All tests	IS:57/1989
Titanium Dioxide	All tests	IS:411/1991
Organic pigments	All tests	IS:3574/1966
Oil paste for paints, white	All tests	IS:96/1985
Liquid drier for paints	All tests	IS:385/1979
Putty for use on wooden frames	All tests	IS:419/1967
Distemper		
Dry colour	All tests	IS:427/1965
Oil emulsion	All tests	IS:428/1969
Paint remover :	All tests	IS:430/1972
Anticorrosive paint for ship's bottoms & Hulls	All tests	IS:1404/1989
Antifoaling paint for ship's bottoms & Hulls	All tests	IS:1419/1989
Ready mixed brusing red lead paint	All tests	IS:102/1962
Priming, Ready		

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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mixed paint,
brushing

Zinc chrome	All tests	IS :104/1979	
Plaster	All tests	IS :109/1968	
Red Oxide zinc chrome	All tests	IS :2074/1992 & 2075/1979	
Wood primer, pink	All tests	IS : 3536/1966	

Thinner,general purposes for synthetic paint & varnish	All tests	IS : 14314/1995	
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R/M paint Grey filler for enamels for use over primers	All tests	IS :110/1983	
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R/M paint, brushing, finishing,exterior,semi gloss for general purpose to IS colours	All tests	IS :117/1964	
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R/M paint, brushing, finishing,semi gloss for general purpose to various IS colour	All tests	IS :123/1962, 124(I)/1976, 124(II)/1976, 124(III)/1979	
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R/M paint, brushing, finishing, exterior, semi gloss for general purpose, white	All tests	IS :35/1976	
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R/M paint, brushing, finishing, exterior,semi gloss for general purpose,black	All tests	IS :128/1962	
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R/M brushing,m	All tests	IS :137/1965	
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matt or eggshell
flat,finishing,
interior paint too

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
IS colour			
R/M paint, exterior,petrol resisting,air drying	All tests	IS :140/1980	
R/M paint, exterior,petrol resisting,stoving	All tests	IS :142/1980	
Acid resisting paint,brushing	All tests	IS :159/1981	
R/M paint, brushing bituminous black, lead free acid, alkali & Heat resisting	All tests	IS :158/1981	
Water & chlorine	All tests	IS : 9862/1981	resisting
R/M paint, brushing,fire resisting silicate type	All tests	IS :162/1950	
R/M paint, dipping,fire resisting	All tests	IS :163/1978	
R/M paint for road marking	All tests	IS :164/1981	
R/M paint,air drying for general purpose tinted to various colours	All tests	IS :168/1993	
Aluminium paint For general purpose in dual container	All tests	IS :2339/1963	
Aluminium paint heat resistant	All tests	IS : 13183/1991	

Cement paint
 Cement paint
 Physico-chemical test
 18 months outdoor exposure test
 plastic emulsion paint

IS :5410/1992

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
	For interior use	All tests	IS : 5411(I)1974
	For exterior use	All tests	IS : 5411(II)/1972
	Knifing stopper	All tests	IS :5083/1981
	Stoving enamel, brushing	All tests	IS :150/1950
	Stoving enamel, spraying	All tests	IS :151/1985
	Gold size varnish	All tests	IS :198/1978
	Enamel interior		
	Undercoating, finishing	All tests	IS :133/1993
	Varnishing shellac	All tests	IS :347/1975
	Varnish,interior finishing	All tests	IS :337/1975
	French polish	All tests	IS :348/1968
	Insulating varnish	All tests	IS : 10026/1983
	Synthetic varnish, exterior, finishing,air drying	All tests	IS :524/1983
	Varnish,exterior finishing	All tests	IS :525/1968
	Black Japan	All tests	IS :341/1973
	Synthetic exterior enamel finishing/undercoating	All tests	IS :2932/1993

physico-chemical
test

Outdoor exposure
test

Enamel exterior All tests IS :2933/1975
finishing/under
coating

Physico-chemical
test

Outdoor exposure
test

Enamel synthetic All tests IS :8662/1993
exterior finishing
& undercoating
for railway
coaches

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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Epoxy based zinc All tests IS :
phosphate primer 13238/1991
(two pack)

Epoxy All tests IS :
based surfacer 13239/1991
(two pack)

Epoxy enamel All tests IS :
two component, 14209/1994
glossy,

Bituminous All tests Indian railway
emulsion specification
p-30/1996

Polyurethane All tests IS :
Primer zinc 13759/1993
phosphate

Polyurethane base All tests IS :
surfacer, 13799/1993

Polyurethane full All tests IS :
gloss enamel 13213/1991

Coal tar tape, All tests AW WA-C-
primer & enamel 203-1991

Thermoplastic All tests IS :
road marking 3262(I)/1989

material High-Build Epoxy paint	All tests	R.D.S.O., Specn. No. M & C/PCN/ 101/2000
Coach cleaning composition	All tests	R.D.S.O., Specn. No. M & C/PCN/ 101/2001
Fibres & Fabrics	Identification of fibre by microscope & chemical Immaturity count by microscope & chemical Moisture content Composition of fibre (by chemical) Loss on ignition Ash content Weight in gm./ sq.metre Dye fastness to light By Fadeometer- 100 hrs. More than 100 hrs.	

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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Natural light (Sun).

Dye fastness to washing and
 chemical
 Scouring loss
 PH of aqueous extract
 Alkali solubility
 Sweating test
 Copper/Managanese/Zinc
 Water soluble impurities
 Wt. Of coating
 Chloride/sulphate
 Grease or oil content
 Wool or other fibre content
 (quantitative)
 Colour fastness to-

Fibres & Fabrics	Rubbing (Dry) ,Rubbing (Wet),Rubbing(Wet) perspiration Ink and erasing test of tracking cloth Rubbing/Perspiration, Water/Grease/Petrol/Dil. Acid/Dil.Alkali Glass content of glass fabric Alkali content in glass fabric Free acidity or alkalinity Weight of basic material of treated material Identification of nature of dye Resistance to fumigants Resistance to xylol PH of water extract
Paper & stationary materials	Bleeding and blooming Ash content Water soluble matter Copper/iron Copper number Acidity of water extract Reducing matter content Resistance to oil or grease Oil absorption test

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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Water absorption test
 Water resistance property
 Bitumen content
 Softening point of bitumen
 Sulphate/ chloride
 Paraffin wax content
 Grease retention test
 Optical property :
 Opacity, Gloss, Reflectance,
 Brightness, Whiteness

Adhesive, Glue, Shellac etc.	Viscosity	
	Refractive index	
	Nature of adhesive (Identification)	IS:848
	Jelly strength	
	Moisture content	
	Resin	IS:355
	Ester gum	IS:358
	Gum Dammer	IS:357
	Shellac	IS:16
	Essential requirements only, Optional requirements only	
	Bleached lac	IS:17
	Essential requirements only, Optional requirements only	
	Sealing wax	IS:868
	Animal glue	IS:852
	Gum powder/Office paste	IS:2257
	Gum, Office paste	IS:2257
Brushes and Brush Materials		
	By water immersion, by benzene/alcohol immersion, by microscope examination, consolidation by all the above methods	
Vacuum brake fittings, etc.	Weight	
	Moisture content	
	Weight of basic material	
Vulcanised fibre & synthetic resin bonded material and phenolic	Resistance to marking	
	Alcoholic liquid, with hot water	

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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sheet

Rubber, Ebonite & Plastics	Moisture content Density/Sp. Gravity water absorption by weight, by volume oil absorption Acetone extract Alcoholic potash extract Ash (Filler content) Copper/Manganese/Lead Optical tests : Opacity, Reflectance, Carbon black content in rubber Identification of ploymer Complete analysis of vulcanized compound Total polymer (rubber) content Rubber hydrocarbon content by weight/by volume Free sulphur in water extract Carbon black content in polythylene Colour fastness : To rubbing (crock meter), Day light, Fadeometer : 100 hours more than 100 hours.		
Miscellaneous	Fugitive ink test for cheque Sensitisation test of cheque paper Iron exchange resin (Anion & Cation) : Total exchange capacity, Bulk density, Sieve analysis, Moisture, Operation capacity (per each level) Synthetic adhesive IS:4835 Dextrine adhesive IS:6367		

Flax, cotton or
 other woolen
 Jacketed hoses Weight / Length ratio
 Copper/Zinc/Chromium

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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	Chloride/Sulphate Moisture content Ash content Fats & Oils content Water soluble matter Soluble/insoluble ash Oil/Creosote content Glucose content Epsom Salt content Nitrogen and Hide substance Water absorption Acid value Combined oil content		
Cement	Setting time, Fineness by specific surface soundness by Le Chatelier, Soundness by Autoclave, Compressive strength, Drying shrinkage, Specific gravity, Resistance to sulphate expansion	IS:269/2455/ 1489/8112/12 269/8042/269 09/8041/4031	
Acid resistance mortar	Working time, Setting time, Tensile strength, Flexural strength, Compressive strength, Bond Strength, Absorption & apparent porosity, Chemical resistance, Resistance to thermal shock, Moisture absorption, Tendency of aggregate settle.	IS:4456/ 4832 (Pt. 1,2,3)	
Building lime	Fineness, Residue on slaking, setting time, compressive strength, Transverse	IS:712	

	Strength, workability, volume yield, soundness, popping & pitting	
Pozzolanic material	Fineness, Lime reactivity, Compressive, strength, Drying shrinkage, Soundness by Autoclave	IS:3812/1727
Burn Clay Pozzolana	Fineness, Limereactivity, compressive strength, Drying shrinkage	IS:1344
Water proofing	Setting time, Compressive	IS:26245

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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compound	strength, Permeability		
Magnesium oxy-chloride flooring compound	Setting time, compressive strength, flexural strength, linear change, resistance to chemicals	IS:658 10132	
Lime pozzolana	Free moisture & loss on ignition, fineness, setting time, compressive strength	IS:4098	
Thermal insulating cement strength	Covering capacity, volume change,	IS:5724	compressive
Soil/Bentonite	dry adhesion to steel, linear shrinkage		
	Liquid limit, plastic limit, shrinkage limit, triaxial shear, moisture content, specific gravity, particle size, direct shear, density, unconfined compression, consolidation CBR (Lab & field), Proctor compaction bulk density, swelling index, sand content, bearing capacity (Plate load)	IS:2720/291 1 (Pt.1 Sec. 2) /1888	
Brick	Compressive strength transverse strength, water absorption, Efflorescence,	IS:1077/1220/2222/2691/	

Timber	dimension, visual examination, warpage, resistance to abrasion Moisture content, Specific gravity, static bending, impact bending, compressive strength, tensile strength, shear strength, indentation hardness, nail & screw holding power, Izod impact strength, species of timber	5779/4860 IS:1708
Flush door	Construction, dimension, moisture content, end immersion, knife test, glue adhesion test, varying & differential humidity, slamming, impact	IS:2202/ 2191/4020

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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Panelled door/window shutter	indentation, shock resistance, edge loading, diagonal corner loading, flexure, local planeness, screw holding power Dimension, construction, moisture content, slamming, impact indentation, shock resistance, edge loading, resistance to buckling, resistance to misuse, behaviour under humidity variation	IS: 1003(I& II)/13034
Particle board (Medium density/High density/Insulation)	Density, dimension, moisture content, water absorption, modulus of rupture, tensile strength, flame retardent, cyclic test, accelerated water resistance	IS :3087/ 3478/3129
Veneered particle/ Laminated	Dimension & density, moisture content, water resistance, swelling,	IS :3097/ 12923

particle board	Modulus of rupture, adhesion of plies, deflection under sustained loading, resistance to steam, resistance to crack, resistance to stain
Block board	Dimension, dimensional change due to humidity, IS :1659 resistance to water, adhesion of plies, mycological, central loading plate test, flexural, deflection under sustained loading
Plyboard	Dimension, construction, density, moisture content, IS :303/10/ 710/4990/ resistance to dry heat, fire 709/5509/ resistance, glue shear 5539 strength, adhesion of plies, water resistance, mycological, tensile strength, compression strength, static bending, long time loading test, impact resistance test, Central loading plate test,

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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Asbestos sheet/Boards	Nail/screw holding power, Modulus of elasticity Dimension, visual examination, density, transverse strength, water absorption, impermeability, frost cracking	I.S :2096/2098	
Asbestos cement corrugated sheet	Dimension, visual examination, load bearing capacity, water absorption, impermeability, frost cracking	I.S :459	
Fire Extinguisher	Construction, expansion space, internal hydraulic pressure, ultimate bursting	I.S :933/934/ 935/940/ 4562/6234	

pressure, discharge time, test 217122/2
 against rusting, leakage test 2878
 for cartridge, discharge
 duration, intermittent
 operation

Concrete Crushing strength, slump I.S :456/
 test, split tensile, transverse, 1786/2770
 compacting factor, mix
 design, bond strength

Hollow block Dimension, visual I.S :2185
 examination, compressive
 strength, drying shrinkage,
 moisture movement, water
 absorption, moisture content

Autoclaved Dimension, density, drying I.S :6072
 reinforced shrinkage, moisture content,
 cellular concrete compressive strength,
 slab deflection & ultimate load

Rock Modulus of elasticity, I.S :9221/
 durability test, porosity, 1126/1122
 water absorption, resistance 1123/1124
 to wear, weathering test, 1125/1706
 Moh's hardness,
 compressive strength,
 flexural strength, split tensile
 strength

Road aggregate Grading, specific gravity, I.S :383/
 bulk density, water 2386/6241
 absorption, moisture content,
 flakiness index, elongation

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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index, aggregate crushing
 value, aggregate impact
 value, aggregate abrasion
 value, alkali - aggregate
 reactivity, stripping test

Concrete Water content, setting time, I.S :9103
 admixture compressive strength,
 flexural strength, length

Tiles	change,bleeding Dimension,visual examination,flatness, perpendicularity, straightness, water absorption, transverse strength,resistance to wear, crushing strength,crazing, impact strength,breaking load, permeability, warpage, thermal shock,resistance to frost	I.S :m1238/ 777/1130 8967/ 896282222/ 1464/1478/ 654/2690/ 3367/3622/ 4457/13753/ 13755/13756
Pipe & Pipe fittings	Dimension, visual examination, straightness, hydrostatic test, three edge bearing, water absorption, bursting strength, crushing strength,transverse crushing, longitudinal bending	I.S : 458/2 651/7284/ 1592/1625/ 1626/4350/ 6908/7319/ 9327
Refractory	Cold crushing strength, dimension,density,modulus of rupture, porosity	I.S :6/7/8
Mineral wool	Dimension, apparent density under specified load,shot content,moisture content, moisture absorption, settlement under vibration	I.S :3677/8103
Sanitary appliance	Construction, freedom from self siphonage,reduced water level,discharge capacity, discharge rate, endurance test, dimension, distortion resistance, dead load test, front thrust test, impact test	I.S :774/2556/ 7231
Glass (Toughened &	Dimension, visual examination warpage, II)	I.S :2553 (I&

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
	Laminated) adhesion	fragmentation, shock test, boil test, fracture & test, impact resistance, penetration resistance	
	Glass (Plain) :2835	Dimension, visual	I.S examination, distribution of allowable defects
	Wired & figured :9162/ glass C881,	Dimension, visual	I.S examination, flame
	Bitumen & :1834/ bitumenous	proofness 882,883 Extensibility, Hardness	I.S number, Marshall test 5317/1195
ELECTRICAL	produc	ASTM D 1559	
	Miniature Air-	High voltage test,	Over I.S :8828
	Break Circuit Breakers for voltage not exceeding 1000 volts	current device calibration test, temperature rise test, time/current characteristics test, shock test	
	Three Phase	Measurement of stator	I.S :125
	Induction Motors upto 5 H.P.	resistance of the motor, Insulation resistance test, No load test, locked rotor test, load test at full load, temperature rise test,	
	reduced	running in both direction, momentary overload in torque test, starting torque test	
	Enclosures	High voltage test, Protection	I.S :9174

contact of personnel against
 contact with live or moving parts
 inside the enclosure and
 protection of equipment
 against ingress of solid
 foreign bodies, Protection of
 equipment against ingress
 of liquid
 Single phase Insulation Resistance test, I.S
 :996
 small A.C. and No load test, locked rotor
 Universal electric test, full load test,
 motors momentary overload test,
 starting torque test,
 Temperature rise test,

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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Enclosures of rotating electrical machinery	Moisture proofness test, leakage current test, High voltage test, Cold resistance of windings Protection against the ingress of solid object/dust particles, protection against ingress of water/moisture, No load running test, high voltage test	IS:4691	
Self contained drinking water coolers	Insulation resistance test, high voltage test, cooling capacity rating test, maximum operating condition test, storage capacity of tank	IS :1475	
Switch for domestic and similar purpose	Protection against electric shock, insulation resistance and electric strength, resistance to humidity, temperature rise, making &	IS :3854	

breaking capacity,
mechanical strength,
resistance to heat, creepage
distance and clearance, water
absorption

Plugs and sockets (Three pin two pole and earthing) Checking of dimension, IS :1293
Protection against electric shock, construction Cl. 12 & 13, Interchangibility, resistance to ageing and moisture, insulation resistance and electric strength, effectiveness of contact, temperature rise, breaking capacity, withdrawal pull, mechanical strength, resistance to heat, screws and connection, water absorption.

Starters for Fluorescent lamps Dimensional checking, IS :2215
insulation resistance under humidity condition, high voltage test, torsion test,

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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mechanical strength,
resistance to heat, quality of
marking, starting test,
endurance test, deactivated
lamp test

Carriers and bases in rewirable type electric fuses for voltages upto 650 volts. Visual examination, test for IS :2086
dimensions, test for mechanical endurance, test for mechanical strength, test for withdrawal force, test for temperature rise, insulation resistance test, high voltage test, test for water absorption (non-ceramic) test for

	ceramic material, ignition test	
Composition units of air-break switches and re-wireable type fuses for voltages not exceeding 650 volts.	Verification of temp. rise limits, verification of dielectric properties, verification of mechanical endurance, starting, air delivery, temperature rise, high voltage, insulation resistance, electrical input, fan speed, moisture proofness test (for regulator only), A.C. leakage.	IS :10027
Railway Carriage Fan	Air delivery, temp. rise, high voltage, insulation resistance, starting, electrical input, fan speed, leakage test,	IS :6680
Pedestal Fan	Air delivery, temp.rise, high voltage, insulation resistance, starting, fan speed, electrical input, moisture proofness (for regulator only), mechanical endurance (for regulator only), A.C.leakage	IS :1169
Air Circulator type electric fan	Air delivery, temp.rise, high voltage, insulation resistance, starting, fan speed, electrical input, moisture proofness test	IS :2997
Ballast for tubular fluorescent lamp	Moisture resistance and insulation (including inter-	IS :1534

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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A.C. Watthour Meters	turn insulation), test for limitations of Ballast heating, Test of performance- Power and current output, pre-heating conditions, voltage across starter terminal, open circuit voltage at lamp termination, test for ballast losses	IS :13010-90	
AC Electricity meters-Var-Hour meters	Insulation resistance, running with no load starting, starting, limits of errors, interpretation of test results, test of meter constant, power loss, heating, dielectric strength, effect of influence quantities, effect of short circuit, effect of self-heating, range of adjustment, independence of adjustment, sustained accuracy test, running at low load, repeatability of error		
AC Static Watthour Meters	Insulation resistance, Dielectric strength, running with no load, starting ,limits of errors, interpretation of test results, test of meter constant, power loss, heating effect of influence qualities, short circuit test, influence of self-heating, range of adjustment, independence adjustment	IS :13779	
	Protection against Penetration of dust and water, power consumption, short time over currents, influence of self-heating, influence of heating, AC Voltage test, insulation test,		

test for accuracy
 requirements, test of starting
 conditions , test of meter
 constant, Test of no-load

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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Current Transformers	condition, test of influence quantities, interpretation of test results, repeatability error test Limits of current error and phase displacement , verification of terminal markings and polarity, high voltage power frequency test on primary windings, high voltage power frequency test on secondary windings, temperature rise test	IS :2705	
Alternating current precision k Wh meters	Limits of error, influence quantities, non-registration with current alone, non-registration with voltage alone, percentage error limit at unbalanced loading	IS :11420	
Maximum Demand Indicators	Insulation resistance, starting, limits of errors, Power loss, temperature rise, dielectric strength, mechanical burden, disconnecting element and timing motor operating voltage limits.	IS :8530	
Electric ceiling type fan and regulators	Air delivery, temperature rise (resistance method), leakage current, high voltage, insulation resistance, starting, fan speed and input,	IS :374	

GLS Lamp resistance, earthing connections, protection against electric shock (for regulators), moisture resistance (for regulators only) mechanical strength (for regulators only), suspension system, creepage distances and clearances, mechanical endurance (for regulators only)
Torsion test, insulation IS :118

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Tubular Fluorescent lamps	Luminous flux (Lumen) measurements- Measurements of Electrical power (Watt), Life performance test.	Torsion test, insulation resistance test, burning test, Starting characteristic test, measurement of luminous flux (1m), measurement of electric power (Watt), colour characteristics, life performance test	IS :2418
GLS lamps	Calibration test (Lumen and watts)		IS :418-1978
Tubular fluorescent lamps	Calibration test (Lumen, watts and colour co-ordinates)		IS :2418
Lead Acid storage batteries for motor vehicle (upto capacity of 200 AH)	Physical examination, Dimensions, air pressure, capacity, vibration, high rate discharge at normal temperature, high rate discharge at low temp., retention of charge,		IS :7372

	resistance to over charge, life, storage
Lead-acid storage batteries for motor cycle (upto capacity of 14 AH)	Test for capacity, vibration IS :1145 test, high rate discharge (for batteries for dyno-starting only), retention of charge, resistance to overcharge, life, storage
Stationery cells and batteries (with tubular positive plates)(upto a capacity of 500 AH)	Test for capacity and test for IS :1651 voltage during discharge, ampere hour and watt-hour efficiency tests, test for loss of capacity on storage, endurance test
Stationery cells and batteries, lead-acid type with plant positive plates	Test for capacity and test for IS :1652 voltage during discharge, ampere hour and watt-hour efficiency, test for-retention of charge, endurance test

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(upto a capacity
of 500 AH)

Synthetic separators for lead-acid batteries	Electrical resistance (DC IS :6071 method), test for mechanical strength, test for watability of separator, chlorine content, iron content, manganese content, volume porosity
Rubber and Plastics containers for lead-acid storage batteries	Hydraulic thrust endurance IS :1146 test, high voltage test, plastic yield test, izod impact test, acid resistance test
Enamelled round winding wires	Diameter, electrical IS :4800 resistance, elongation, (Part-III, IV, V to springiness, mandrel winding XIV) test, stretching test, jerk test,

peel test, heat shock test, cut through test, break down voltage test, continuity of covering, solvent test, cure test,

Unarmoured PVC insulated cables with copper or aluminium conductors and flexible cords with copper conductors for voltage upto and including 1100 volts

Overall dimensions, IS :10810
 thickness of insulation, (Part-1,2,5,
 thickness of sheath, 6,7,10,11,
 conductor resistance, 12,14,15,23,
 insulation resistance, high 43,45)
 voltage test (water IS :694/1990,
 immersion test), annealing 8130/84,
 test (copper), tensile test for 5831/84,
 aluminium, wrapping test for 1554(I)
 aluminium, tensile strength
 and elongation at break for
 PVC insulation and sheath,
 loss of mass for PVC
 insulation and sheath, ageing
 in air oven for PVC
 insulation and sheath,
 shrinkage test for PVC
 insulation and sheath, heat
 shock test for PVC insulation
 and sheath, hot deformation
 test for PVC insulation &
 sheath.

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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Armoured and unarmoured single/twin/three and multicore PVC insulated and sheathed cables for working voltage upto and including 1100 volts

Thickness of insulation, IS :10810 (Pt-
 thickness of sheath, 1,2,3,5,6,
 conductor resistance, 7,10,11,12,
 annealing test (solid copper), 14,15,37,
 insulation resistance test, 38,39,40,41,
 high voltage test (water 43,45,88)
 immersion test), high IS :3975/79
 voltage test at room IS :1554(I)/88,
 temperature, tensile test (for 5831/84
 aluminium, wrapping test for
 aluminium, tensile strength

	and elongation at break	
	armour, torsion test for	
	armour wire,	
Armoured and	Annealing test (copper),	IS :10810 (Pt-
unarmoured	conductor resistance,	1,2,3,5,6,
single/twin/three	thickness of insulation	7,11,12,14,
and multicoire	thickness of sheath,	15,30,33,37,
crosslinked	insulation resistance test	38,39,40,41,
polyethylene	(volume resistivity), high	43,45,88)
(XLPE) insulated	voltage test at room	IS :8130/84
and PVC	temperature, tensile test for	IS :7098(I),
sheathed cables	aluminium, wrapping test for	IS : 3975/79
for working	aluminium, torsion test for	IS : 5831/84
voltage upto and	armour wire, tensile strength	
including 1100	and elongation at break for	
volts	armour, winding test for	
	armour strip, uniformity of	
	zinc coating on armour, mass	
	of zinc coating on armour,	
	tensile strength and	
	elongation at break for	
	XLPE and PVC compound,	
	shrinkage test for XLPE &	
	PVC compound, shrinkage	
	test for XLPE & PVC	
	compound, hot set test for	
	XLPE insulation, water	
	absorption test for XLPE	
	insulation, hot deformation	
	test for PVC sheath, heat	
	shock test for PVC sheath,	
	thermal stability test.	
Insulated winding	Annealing test (Copper),	IS:10810 (Pt-
wires for	conductor resistance,	1,5,6,7,11,

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
submersible motors	thickness of insulation, insulation resistance, high voltage test (water immersion test) tensile strength and elongation for PVC insulation, Thermal ageing in air oven for PVC insulation, Heat shock test for PVC insulation, hot set test for PVC insulation, shrinkage test for PVC insulation, hot deformation test for PVC insulation, water absorption test for PVC insulation	12,14,15, 30,33,43,45) IS :8783,5831	
Single/twin/three four and five core elastomeric insulated and sheathed cables for fixed wiring flexible cables and flexible cords for working voltages upto and including 1100 volts	Annealing test (copper), overall diameter, thickness of insulation, thickness of sheath, insulation resistance, high voltage test (water immersion test), tensile test for aluminium, wrapping test for aluminium, tensile strength and elongation at break for elastomeric insulation and sheath, ageing in air oven for elastomeric insulation and sheath, ageing in air bomb for elastomeric insulation and sheath, ageing in oxygen bomb for elastomeric insulation, hot set test for elastomeric insulation and sheath, oil resistance test for elastomeric insulation and sheath, tear resistance test for elastomeric sheath, persulphate test for tinned	IS :10810 (Pt-conductor resistance test, 1,2,3,4,5, 7,11,17,30, 31,45,88) IS :8130/84 IS :9968, 5831/84	

Single core copper
 elastomeric Annealing test, conductor IS :10810 (Pt-
 insulated flexible resistance test, thickness of 1,5,6,7,11,
 cables for (water covering, high voltage test 30,31,45,56,) immersion test), IS :8130/84

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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welding purpose tensile strength and IS :9857,
 elongation at break for 6380/84,
 elastomeric insulation and sheath, ageing in air oven for
 elastomeric insulation and sheath, ageing in air bomb
 for elastomeric insulation and sheath, oil resistance test
 for elastomeric insulation and sheath, hot set test for
 elastomeric insulation and sheath

Elastomeric Annealing test, conductor IS :10810(Pt-
 insulated flexible resistance test, overall 1,6,7,11,16,
 cable for Miner's diameter, thickness of 31,45,56)
 cap lamps insulation, thickness of IS :8130/84
 sheath, voltage test 6380/84,
 persulphate test for tined 2593/84
 copper, tensile strength and elongation at break for
 elastomeric insulation and sheath, ageing in air oven for
 elastomeric insulation and sheath, ageing in air bomb
 for elastomeric insulation and sheath, ageing in
 oxygen bomb for elastomeric insulation, oil resistance test
 for elastomeric insulation and sheath.

Elastomeric Annealing test, conductor IS :10810 (Pt-
 insulated flexible resistance test, thickness of 1,4,5,6,7,
 trailing cables insulation, thickness of 11,16,17,30,

use in coalmines sheath, insulation resistance 31,37,38,39, test, voltage test, persulphate 40,41,43,45, test for tinned copper, tensile 56) strength and tensile stress IS :8130/84 and elongation at break for 691 elastomeric insulation and 6380/84, sheath, ageing in air oven for 3975/79 elastomeric insulation and sheath, ageing in air bomb for elastomeric insulation and sheath, ageing in oxygen bomb for elastomeric

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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<p>Three four and five core pliable armour flexible cables with elastomeric insulation and sheath for use in quarries and metalliferous mines for working voltage upto and including 1100</p>	<p>insulation, oil resistance test for elastomeric insulation and sheath, hot set test for elastomeric insulation and sheath, tear resistance test for elastomeric sheath, tensile strength and elongation at break for armour, torsion test for armour wire, winding test for armour strip, uniformity of zinc coating on armour, mass of zinc coating on armour</p> <p>Annealing test, conductor IS :10810 (Pt-resistance test, thickness of 1,5,6,7,11, insulation, thickness of 16,17,30,31, sheath, insulation resistance 43,56) test, voltage test, persulphate IS :8130/84 test for tinned copper, tensile 1026 strength and tensile stress 6380/84, and elongation at break for elastomeric insulation and sheath, ageing in air oven for elastomeric insulation and sheath, ageing in air bomb for elastomeric insulation</p>
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volts and sheath, ageing in oxygen bomb for elastomeric insulation, oil resistance test for elastomeric insulation and sheath, hot set test for elastomeric insulation and sheath, tear resistance test for elastomeric sheath,

PVC insulatedd and sheathed plain annealed copper conductor, shot firing cables. Annealing test, conductor IS :10810 (Pt-resistance test, thickness 1,5,6,7,10, insulation, thickness of 11,12,14,15, sheath, insulation resistance 16,43,45) test, voltage test, tensile IS :8130/84 strength and elongation at 5950/84 break for PVC insulation and 5831/84 sheath, Ageing in air oven for PVC insulation and sheath, loss of mass for PVC insulation and sheath, Hot

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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deformation for PVC insulation and sheath, heat shock test for insulation and sheath, shrinkage test for PVC insulation and sheath

Cross linked polyethylene insulated PVC sheathed cable Resistance test, tests for IS :7098, armour wires/strips, tensile IS :8130 test, elongation test, torsion 3975,5831, test, winding test, test for 10810, zinc coating, tests for thickness of insulation and sheath, physical tests for insulation, tensile strength and elongation at break, ageing in air oven, hot set test, shrinkage test, water absorption (Gravimetric), physical tests for outer sheath, tensile strength and

Flex. Trailing cables

elongation at break, ageing in air oven, shrinkage test, hot deformation, loss of mass in air oven, heat shock, thermal stability, dielectric power factor as a function of voltage, insulation resistance test, high voltage test, flammability test

Persulphate test, conductor IS :1026, res. Test. Tests for thickness of insulation and sheath, 6380/84, physical tests for insulation and sheath, 3975/79, tensile strength, tensile stress and elongation at break, ageing in air oven, ageing in air bomb, ageing in oxygen bomb, oil res. Test, tear res. Test, hot set test, ozone resis. Test, tests for armour wires, tensile test, elongation test, torsion test, resistance of armour, insulation resistance test, high voltage test,

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
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Paper insulated lead sheathed cable

flammability test

Resistance test, tests for thickness of insulation, tests for thickness of lead and lead alloy/sheath, breaking strength and elongation test for insulation, test for thickness of steel tape or diameter of round steel wire or dimensions of steel strips, test for thickness and physical properties of extruded bedding and

serving, dielectric power factor/ voltage test for 19/33 KV cables only, voltage test

Elastometer insulated cables.	Conductor resistance test, IS :9968, tests for armour wires/strips, 8130,3975, tensile test, elongation test, 6380,10810, torsion test,winding test, tests for thickness of insulation and sheath, physical tests for insulation, tensile strength and elongation at break, ageing in air bomb, ageing in air oven, physical tests for sheath, insulation resistance test, dielectric power factor as function of voltage , high voltage test,
PVC insulated (Heavy duty) electric cables	Conductor resistance test, IS :1554, tests for armour wires/strips, 8130,10810, tensile test, elongation test, 39715 torsion test, winding test, tests for thickness of insulation and sheath, insulation resistance test, dielectric power factor as function of voltage, high voltage test, flammability test
Procelain insulators for over load power lines	Visual examination, IS :731 verification of dimensions, visible discharge test,wet

NAME OF LABORATORY	PRODUCT/MATERIAL OF TEST	TEST/CALIBRATION FACILITIES AVAILABLE	REMARKS
with a nominal voltage greater than 1000 volts	power frequency voltage withstand test, temperature cycle test, mechanical failing load test, puncture test,		
Porcelain post insulators for systems with nominal voltage greater than 1000 volts	porosity test, galvanising test	Visual examination, IS :2554,	
Procelain insulators for telegraph and telephone lines	verification of dimensions, visible discharge test, dry power frequency voltage withstand test, wet power frequency voltage withstand test, temperature cycle test, mechanical strength test, puncture test, porosity test, galvanising test,	Verification of dimensions IS :283	
Procelain insulators for overhead power lines with a nominal voltage upto and including 1000 volts.	temperature cycle test, mechanical failing load test, porosity test, visual examination, insulation resistance	Visual examination, IS :1445,	
Procelain Guy insulators	dry power freq. Voltage withstand test, temperature cycle test, mechanical failing load test, puncture test, porosity test,	Visual examination, IS :5300	
Rubber mats for electrical purposes	dry power freq. Voltage withstand test, temperature cycle test, wet power frequency voltage withstand test, mechanical failing load test, porosity test,	Tensile strength and elongation at normal conditions, compression set	

at normal temperature,
tensile strength after ageing
in air oven, electrical (proof
test) of rubber mat,
breakdown test of rubber

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Paper covered aluminium conductors	mat, water absorption at ambient temp.by weight, Tensile strength and elongation at normal condition, tensile strength after ageing in air oven, pH value, conductivity of aqueous extract, oil absorption, electric strength (D.P.C. conductors)	IS :6162	
Paper covered copper conductors	Tensile strength and elongation at normal condition, burst strength,pH value, conductivity of aqueous extract, oil absorption, electric strength D.P.C.conductors)	IS :7405	
Procelain bushings for A.C. voltages upto and including 1000 volts.	Visual examinations, verification of dimensions, dry power freq. Voltage withstand test,temperature cycle test, wet power frequency voltage withstand test,	IS :7421	
High voltage fuses	Dry power freq. Voltage withstand test,wet power freq. Voltage withstand test, temperature rise test	IS :9385	
Alternating current switches for voltages above 1000 volts.	Dry power freq. Voltage withstand test (upto 33 KV) for A.B.Switch, dry power freq. Voltage withstand test (above 33 KV) for A.B.	IS :9920	

Switch,wet power frequency voltage withstand test (upto 33 KV) ,wet power frequency voltage withstand test (above 33 KV), Multi volt drop test, temperature rise test (A.B. Switch), temperature rise test (above 400 amps.), mechanical endurance test (below 33 KV), mechanical endurance test (above 33

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A.C. Disconnectors (isolators) and earth switches for voltage above 1000 volts	KV)	Dry power frequency voltage IS :9921 withstand test (upto 33 KV) for isolator, Dry power frequency voltage withstand test (upto 33 KV) for isolators, wet power frequency voltage withstand test (upto 33 K V), wet power frequency voltage withstand test (above 33 KV),test for thickness, width, breaking strength and elongation of tapes, electric strength (proof test) of H.T. insulating tape,	
Conductive and antistatic products made from flexible polymeric materials	Electrical properties of antistatic flooring material	BS :2050	
Varnished cotton cloth and tape for electrical purpose	Electrical strength (proof test) for empire cloth and tape,extensibility at normal condition, tensile and elongation for each direction	IS :3352	

	(normal condition), tear strength (across), tear strength (along), acidity (as acetic acid)	
Voltage transformers	Verification of terminal and polarity, dry power frequency withstand test for primary windings, dry power frequency withstand test for secondary windings	IS :3156(I-VI)
Battery containers	determination of errors (ration and phase angle), temperature rise test	IS :1146
ACSR	High voltage test.	
Conductors	Resistance test	IS :2121
Water from different sources	Conductivity test	IS :1069
H.T. Insulating	Electric strength test	IS :7755

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cotton tapes		
Bitumen based filling compound	Electric strength	IS :7084
Industrial laminates	Electrical strength in oil, insulation resistance test	IS :2036
Insulating materials e.g. Bakelyte Hylam, wood etc.	Electric strength, volume resistivity, surface resistivity	IS :2036,3396
Rubber gloves for electrical purposes	Electrical properties	IS :4770
Mild steel, bars, plates, sheets, strips, high tensile wires, tor steels, screw coupling, tubes, fastners, cast irons, various	Tensile test	IS :

ferrous and non-ferrous materials	
-do-	Bend test
-do-	Hardness test : Vickers, Brinell, Rockwell
screw Coupling	Product Impact test (special) & (Destructive)
Hard drawn steel wire	Reverse bend test
Screw coupling	Destructive tensile test
Metallic wires	Wrapping Test
Mild steel Rounds	Shear Test
Steel wire, copper and copper alloy wire	Torsion test
Cast iron (C.I.)	Transverse test
Bitumen Drum	Capacity test
Insulator clamp fittings	Slip strength of bolted type tension clamp.
Barbed wire	Dimensions, Tensile
Cylinder, tubes, valves, pressure cooker etc.	Hydrostatic pressure test
Hooks, sprinks, threaded steel fastners, chain	Proof load test

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Pulley block	
Tubes	Flattening test
Steel sheet, strip	Cupping test
Test sieve	Dimensions
Steel Files	Dimensions, hardness
Tor steel	Mass/Meter
Sluice valve, Soil pipe	Weight test
Hack saw blades determination	Hardness cutting, pitch
Galvanized stip	Winding test

NON-DESTRUCTIVE TESTING

Springs Welds, castings,	Deflection test. Radiography testing forgings, extruded	IS :1182-83, 2595-78 &
and rolled materials for ferrous and non- ferrous on semi finished as well as finished components	4853-82 IBR (Regulation- 1950) 1998 ASTM-E- 10323-85; 142-86,747- 87,1030-84; 186-84,446- 84;155-85 (vol.II & series-II), 1025-84;94- 89 ASME (1986) Sec.-V	
Welds castings, :4225-79, forgings, extruded and rolled materials for ferrous and non- ferrous on semi- finished as well as finished components	Ultrasonic testing 4260-86, 6394-86, 7666-88, 8791-78 & 11626-86 ASME (1986) Sec.V	IS
Welds, castings, IS :3703-80; forgings, for ferromagnetic materials on semi as well as finished	Magnetic Particle testing 5334-81; 6752-91 & 7743-75 ASME (1986) Sec.V	

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components Forged, cast, welded components in semi as well as finished stage	Liquid penetrant testing	IS :3651-81. ASME (1986) Sec.V	
Steel/cast iron/ wrought steel/ tool steel / bearing steel/ aluminium & its alloys/ electroplated coatings/ ferrous & non-ferrous castings, weldings, forgings & other metal products.	Metallography examination	IS :4163-82, 4748-88, 6396-83, 6416-88 7754-75, 10131-83, 11371-85, 12037-87, 13691-93, 12211-87, 4075-85, 1868-68, 5523-83, 3203-82, 1771-86, 1067-81, 1068-93, 1337-93, 12393-88, 1572-86, 9530-80, 11857-86, 1501-87, 1598-7722 1757-88, 1865-91, 2107-77, 2108-77, 2640-77, 2749-74 814-91 As Per	
Welding		As Per	

Electrodes

relevant IS &
AWS

Failure
investigation on
ferrous and non-
ferrous
components

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RUBBER, PLASTICS & TEXTILES	Certification of welders	As per IBR	
	Rubber, conveyor beltings	All tests except abrasion loss test	IS :1891(I)
	V-belts(endless)	IS :2494 (I)-1994	
	Power IS :6583-	Transmission Belts Rubber	All tests Dynamite fatigue test1989
	IS :447-1988	welding Electrically	Hose for
	IS :10733-	Bonded Road & vacuum	& bending
	under Rail Tanker Hose of Rubber	1983 proof pressure	
	Rubber air hose	IS :446-1987	
	Fire fighting Hose	IS :636-1988	
	Water suction & discharge hose of rubber (Heavy duty)	IS :1549-1983	All tests except resistance to vacuum test
Rubber mats for electrical		IS :5424-1969	

purposes	
Latex foam	All tests except flexing test
IS :1741-1960	
rubber products	
Rubber Hot	IS :1867-
Water Bottles	1975
Sheet rubber	IS :638-1979
jointing & rubber	
insertion jointing	
Rubber sealing	IS :5382-1985
rings	
Hospital	IS :4135-1974
sheetings	
PVC Conveyor	All tests except fire IS
:3181-1992	
Beltings	resistance test
PVC/Rubber	All tests IS :12200-87
Waterstops	
PVC Flooring	All tests except resistance to
IS :3462-1986	
Steels	various substances
HDPE Bags	All tests IS :11652-92
Decorative	All tests. IS :2046-1969

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Laminates		
Phenolic	All tests.	IS :2036-1974
Laminated Sheets		
Unplasticised	All tests except long term	IS :4985-2000
PVC Pipes	Hydrostatic test.	
Polyethylene	All tests.	IS :6312-1994
Containers		
Flexible Non	All tests	IS :6946-1973
Metallic Conduits		
for electrical		
installation		
Unplasticised	All tests	IS :12818-92
PVC Screen &		
Casing Pipes		
Low Density	All tests	IS :2508-1984

Polyethylene Films		
High Density Polyethylene Films	All tests	IS :7328-1992
Bitumen Felts	All tests	IS :1322-1993
Glass Fibre based Bitumen Felts	All tests	IS :7193-1994
Glass fibre based bitumen felts		IS :7193-1994
Expansion Jointer (Bitumen Impregnated Fibre)		IS : 1838(I)1992
Sisal Ropes		IS :1321(I) 1992
Coir ropes		IS :1410-1983
Polypropylene ropes	Upto 24 mm diameter	IS :5175-1992
Fibre core for steel wire ropes		IS :1804-1996
Compressed Asbestos fibre jointing		IS :2712-1998
Gland Packings		IS :4687-1995
Linoleum SHEET		IS :653-1992
Angola Cloth		IS :8331-1993
Handloom Wool blankets		IS :892-1980
Manila ropes		IS :1084-1994

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	vinyl coated fabrics	IS :1259-1984	
	Tarpauline	IS :2089-1977	
	Bed sheet	IS :175-1989	
	Cape waterproof	IS :2422-1985	
	Cotton duck	IS :1422-1983	
	Textile vests	IS :4964-1991	
	cotton		
	Polyester blend suitings	IS :11248-1995	
	Polyester blend shirting for uniforms	IS :11815-1996	
	Carpets	IS :5884-1993	
	Azure laid papers	IS :1848-1991	
	Cream Wove papers	IS :1848-1991	
	Printing coloured papers	IS :1848-1991	
	Bond papers	IS :1848-1991	
	Map Litho papers	All tests except gloss and wax picks	IS :1848-1991
	Printing white	IS :1848-1991	
	Type writing papers	IS :1848-1991	
	Krafts papers	IS :1397-1990	
	paper, computer	IS :12766-1997.	