

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	1 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	FOOD & AGRICULTURAL PRODOUCTS			
1.	Milk And Dairy Products	Acid insoluble ash	DGHS Lab Manual-1: 2005	0.01 % to 1.0 %
	Pasteurized Milk, Condensed Milk, Milk Powders, Paneer, Khoa, Pasteurized Butter, Butter Oil, Cream, Infant Milk Substitutes	Refractive index	IS 3508: 1966 (RA 2009)	10 to 45
		Total solid	IS 1479 (Part 2): 1961 (RA 2009) / IS 12333: 1997 (RA 2008)	0.05 % to 99 %
		Weight/Volume	IS 2802: 1964 (RA 2010)	5 to 1000
		Solubility	IS 12759: 1989 (RA1999) / ISO 8156-1987	0.1 to 100
		Milk solid	IS 11622: 1996 (RA 2008)	0.05% to 99 %
		Lactose content	IS 1479 (Part 2): 1961 (RA 2003)	1. 5 % to 99 %
		Carbohydrate	IS 1656: 2007	1 % to 90 %
		Crude fibre	DGHS Lab Manual-1: 2005 IS 10226 (Part 1): 1982	0.01 % to 50 %
		Sugar	IS 15279: 2003 (RA 2008) / IS 5982: 1990 (RA 2007) / IS 1479 (Part 2): 1961	1 % to 10 %
		pH	IS 1479 (Part 2): 1961 (RA 2003)	1 to 14
		Iron	AOAC (19 th Edition) 999.11: 2012	0.25 mg/kg to 100.0 mg/kg
		Iodine	IS 548 (Part 1): 1964 (RA 2010)	1 to 20
		Phosphorus	IS 1479 (Part 2): 1961 (RA 2009)	0.1 mg/kg to 10 mg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	2 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chloride	IS 1479 (Part 2): 1961 (RA 2009)	0.05 % to 10 %
		Magnesium	IS 5949: 1990/ AOAC (19 th Edition) 984.27: 2012	25 mg/kg to 1000 mg/kg
		Sodium	IS 12760: 2012	25 mg/kg to 1500 mg/kg
		Potassium	IS 12760: 2012	25 mg/kg to 2000 mg/kg
		Casein	IS 1479 (Part 2): 1961 (RA 2009)	1 % to 20 %
		Milk fat	IS 1479 (Part 2): 1961 (RA 2009)	0.5 % to 10 %
			IS 11762: 2005	0.1 % to 30 %
			IS 10484: 1983 (RA 2010)	10 % to 90 %
			IS 2785: 1979 (RA 2009)	10 % to 80 %
			IS 3507: 1966 (RA 2009)	50 % to 100 %
			IS 3509: 1966 (RA 2009)	80% to 100%
			IS 3509: 1966 (RA 2009)	1% to 80%
		Milk solids not fat (SNF)	IS 1479 (Part 2): 1961 (RA 2009)	5% to 12%
		Phosphatase test	IS 8479 (Part 1 & Part 2): 1977 (RA 2008)	Qualitative
		Neutralizer	IS 1479 (Part 1): 1961 (RA 2009)	Qualitative
		Total milk solids	IS 1166: 1986 (RA 2009)	20% to 80%
		Sucrose	IS 1166: 1986 (RA 2009)	20% to 70%

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	3 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Titratable acidity as lactic acid	IS 1166: 1986 (RA 2009)	0.1% to 1.0%
			IS 10484: 1983 (RA 2010)	0.1% to 5%
			IS 4883: 1980 (RA 2009)	0.1% to 5%
			IS 3509: 1966 (RA 2009)	0.001 % to 2 %
		Accelerated storage test	IS 1166: 1986 (RA 2009)	Qualitative
	Calcium		AOAC (19 th Edition) 985.35: 2012	0.001 % to 0.5%
	Copper		AOAC (19 th Edition) 999.11: 2012	5 µg/kg to 500 µg/kg
	Moisture		IS 10484: 1983 (RA 2010)	10% to 80%
			IS 3507: 1966 (RA 2009)	1% to 50%
			IS 3507: 1966 (RA 2009)	0.1% to 5%
	Total solids		IS 1166: 1986 (RA 2009)	20% to 90%
	Total ash		IS 1547: 1985 (RA 1987)	0.1% to 10%
	Acidity		IS 3507: 1966 (RA 2009)	0.01% to 5 %
	Curd		IS 3507: 1966 (RA 2009)	0.1% to 5 %
	Common salt		IS 3507: 1966 (RA 2009)	0.1% to 5%
	Free fatty acid		IS 3508: 1966 (RA 2009)	0.05% to 10%
	Reichert meissl value		IS 3508: 1966 (RA 2009)	15 to 30
	Peroxide value, milli-equivalent of oxygen per kg		IS 3508: 1966 (RA 2009)	0.01 to 2
	Incubation test		IS 4884: 1968 (RA 2010)	Qualitative

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	4 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Adulterants / Contaminants / Preservatives			
	Water		IS 15642 (Part 1): 2006 (RA 2009)	Qualitative
	Sodium chloride		IS 15642 (Part 2): 2006 (RA 2009)	Qualitative
	Extraneous urea		IS 15642 (Part 2): 2006 (RA 2009) / IS 1479 (Part 1): 1961 (RA 2009)	Qualitative
	Hydrogen peroxide		IS 1479 (Part 1): 1961 (RA 2009) / DGHS Lab Manual 1: 2005	Qualitative
	Formalin		IS 1479 (Part 1): 1961 (RA 2009) / DGHS Lab Manual 1: 2005	Qualitative
	Boric and borates		IS 1479 (Part 1): 1961 (RA 2009) / DGHS Lab Manual 1: 2005	Qualitative
	Benzoic acid		IS 1479 (Part 1): 1961 (RA 2009)	Qualitative
	Salicilate		IS 1479 (Part 1): 1961 (RA 2009) / DGHS Lab Manual 1: 2005	Qualitative
	Skimmed milk powder		IS 1479 (Part 1): 1961 (RA 2009) / DGHS Lab Manual 1: 2005	Qualitative
	Formaldehyde		IS 1479 (Part 1): 1961 (RA 2009)	Qualitative
	Neutralizer		IS 1479 (Part 1): 1961 (RA 2009)	Qualitative
	Foreign fat/Vegetable oil		IS 1479 (Part 1): 1961 (RA 2009)	Qualitative
	Cane sugar in milk		IS 1479 (Part 1): 1961 (RA 2009)	Qualitative
	Starch		IS 15642 (Part 2): 2006 (RA 2009)	Qualitative

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	5 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Mashed potatoes and other starches		IS 15642 (Part 2): 2006 (RA 2009)	Qualitative
	Vanaspati in butter and butter oil		IS 15642 (Part 2): 2006 (RA 2009)	Qualitative
	Total residual antibiotics (as Beta Lactum)		TP/C/14.11 Issue no. 01; 4/5/2014	Qualitative
	Saturated fat		TP/C/14.35 Issue no. 01; 8/1/2014	(0.02 g to 99.0 g)/100g
	Monounsaturated fat		TP/C/14.35 Issue no. 01; 8/1/2014	(0.02 g to 99.0 g)/100g
	Polyunsaturated fat		TP/C/14.35 Issue no. 01; 8/1/2014	(0.02 g to 99.0 g)/100g
	Melamine		TP/C/14.7 Issue no. 01 ; 1/5/2014	0.5 mg/kg to 10 mg/kg
	Agaric acid		TP/C/47. 1 Issue no. 01; 1/5/2014	10.0 mg/kg to 1000 mg/kg
	Hypericin		TP/C/14.24 Issue no. 01; 1/5/2014	0.2 mg/kg to 10mg/kg
	Saffrole		TP/C/14.25 Issue no. 01; 20/6/2014	0.01 mg/kg to 1000 mg/kg
	Hydrocyanic acid		IS 548 (Part 2): 1976 (RA 2010)	Qualitative
	Aflatoxin M ₁		TP/C/14.31 Issue no. 01; 22/7/2014	0.01 µg /kg to 100 µg /kg
	Folic acid		TP/C/14.32 Issue no. 01; 5/6/2014	(10.0 µg to 2000 µg)/100g
	Biotin		TP/C/14.33 Issue no. 01; 4/6/2014	0.01 µg /kg to 100 µg /kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	6 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Vitamin B ₁₂		TP/C/14.34 Issue no. 01; 3/6/2014	(0.5 µg to 30 µg)/100g
	Zinc (as Zn)		TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 1000 mg/kg
	Lead (as Pb)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 1000 mg/kg
	Cadmium (as Cd)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 1000 mg/kg
	Arsenic (as As)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 1000 mg/kg
	Mercury (as Hg)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 1000 mg/kg
	Tin (as Sn)		TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 1000 mg/kg
	Nickel (as Ni)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 1000 mg/kg
	Selenium (as Se)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 1000 mg/kg
	Manganese (as Mn)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 1000 mg/kg
	Chromium (as Cr)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 1000 mg/kg
	Vitamin A		TP/C/14.12 Issue no. 01; 3/6/2014	(10 IU to 20,000 IU)/100g

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	7 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Vitamin D		TP/C/14.13 Issue no. 01; 3/6/2014	(2.0 µg to 300 µg)/100g
	Vitamin E		TP/C/14.14 Issue no. 01; 3/6/2014	(0.5 IU to 2000 IU)/100g
	Beta - Carotene		TP/C/14.15 Issue no. 01; 3/6/2014	0.5 mg/kg to 100 mg/kg
	Vitamin B ₁ (Thiamine)		TP/C/14.16 Issue no. 01; 19/5/2014	(0.5 mg to 300 mg)/100g
	Vitamin B ₂ (Riboflavin)		TP/C/14.17 Issue no. 01; 19/5/2014	(0.3 mg to 300 mg)/100g
	Niacin		TP/C/14.18 Issue no. 01; 19/5/2014	(0.5 mg to 300 mg)/100g
	Vitamin B ₆		TP/C/14.19 Issue no. 01; 19/5/2014	(0.3 mg to 300 mg)/100g
	Pantothenic acid		TP/C/14.20 Issue no. 01; 20/5/2014	0.5 mg/kg to 100 mg/kg
	Vitamin K		TP/C/14.21 Issue no. 01; 16/7/2014	0.5 mg/kg to 100 mg/kg
	Choline		TP/C/14.22 Issue no. 01; 14/7/2014	0.5 mg/kg to 100 mg/kg
	Inositol		TP/C/14.23 Issue no. 01; 18/7/2014	0.5 mg/kg to 100 mg/kg
	Vitamin C		IS 5838: 1970 (RA 2010)	(5 mg to 600 mg)/100g
	Cholesterol		TP/C/14.6 Issue no. 01; 3/6/2013	(5 mg to 500 mg)/100g

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	8 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Cereals, pulses and By-products Food Grains Cereals, Pulses and their Products (Atta, Fortified Atta, Maida, Fortified Maida, Suji, Besan, Wheat, Maize, Bajra, Rice, Pulses)	<i>Argemone mexicana</i> and kesari, Rodent hair	IS 15642 (Part 1): 2006	Qualitative
		Thiamine	TP/C/14.16 Issue no. 01; 19/5/2014	(0.5 mg to 300 mg)/100g
		Riboflavin	TP/C/14.17 Issue no. 01; 19/5/2014	(0.3 mg to 300 mg)/100g
		Niacin	TP/C/14.18 Issue no. 01; 19/5/2014	(0.5 mg to 300 mg)/100g
		Foreign matter	IS 4333 (Part 1): 1996 (RA 2001) IS 2813: 1995 (RA 2005)	0 % to 5 %
		Other edible grains	IS 4333 (Part 1): 1996 (RA 2001) IS 2813: 1995 (RA 2005)	0 % to 5 %
		Damaged grains	IS 4333 (Part 1): 1996 (RA 2001) IS 2813: 1995 (RA 2005)	0 % to 15 %
		Weeviled grains	IS 4333 (Part 1): 1996 (RA 2001) IS 2813: 1995 (RA 2005)	0 % to 10 %
		Uric acid	IS 4333 (Part 5): 1970 (RA 2010)	0.01 % to 10 %
		Moisture	IS 1155: 1968 (RA 2010)	0.01 % to 25 %
			IS 1009: 1979 (RA 2009)	5 % to 20 %
			IS 1155: 1968 (RA 2010)	0.5 % to 30 %
			IS 1010: 1968 (RA 2009)	0.5 % to 20 %
			IS 1009: 1979 (RA 2009)	1 % to 15 %
			IS 1009: 1979 (RA 2009)	0.5 % to 30 %

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	9 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			IS 4333 (Part 2): 2002 IS 1155: 1968 (RA 2010) IS 1010: 1968 (RA 2005) IS 2813: 1995 (RA 2010)	0.01 % to 20 %
		Total ash	IS 1155: 1968 (RA 2010) IS 1010: 1968 (RA 2009) IS 1009: 1979 (RA 2009) IS 4684: 1975 (RA 2010)	0.002 % to 10 % 0.2 % to 5 % 0.01 % to 10 % 0.002 % to 10 %
		Acid insoluble ash	IS 1155: 1968 (RA 2010) IS 1009: 1979 (RA 2009) IS 1010: 1968 (RA 2009) IS 1009: 1979 (RA 2009)	0.002 % to 10 % 0.01 % to 5 % 0.01 % to 5 % 0.001 % to 0.1 %
		Gluten	IS 1155: 1968 (RA 2010) IS1009: 1979 (RA 2009) IS 1155: 1968 (RA 2010) IS 1010: 1968 (RA 2009) IS 1009: 1979 (RA 2009)	0.2 % to 10 % 1 % to 15 % 1 % to 15 % 1 % to 15 % 2 % to 15 %
		Alcoholic acidity	IS 1155: 1968 (RA 2010) IS 1009: 1979 (RA 2009) IS 1155: 1968 (RA 2010) IS 1010: 1968 (RA 2009)	0.02 % to 2 % 0.01 % to 1 % 0.01 % to 1 % 0.01 % to 1 %
		Iron	AOAC (19 th Edition) 999.10: 2012	10 µg/gm to 500 µg/gm
		Protein	IS 7219: 1973 (RA 2010) / IS 4684: 1975 (RA 2010)	0.05 % to 30 %

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	10 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fat		IS 4684: 1975 (RA 2010)	0.02 % to 30 %
	Carbohydrates		IS 1656: 2007	5 % to 90 %
	Energy		IS 14433: 2007	1 Kcal - 700 Kcal
	Crude fibre		IS 1155: 1968 (RA 2009)	0.02 % to 5 %
	Calcium		IS 5949: 1999 (RA 2010)	(50 mg to 300 mg)/100g
	Aflatoxin B ₁		TP/C/27.7 Issue no. 01; 22/7/2014	1 µg/kg to 100 µg/kg
	Aflatoxin B ₂		TP/C/27.7 Issue no. 01; 22/7/2014	1 µg/kg to 100 µg/kg
	Aflatoxin G ₁		TP/C/27.7 Issue no. 01; 22/7/2014	1 µg/kg to 100 µg/kg
	Aflatoxin G ₂		TP/C/27.7 Issue no. 01; 22/7/2014	1 µg/kg to 100 µg/kg
	Ochratoxin A		TP/C/27.8 Issue no. 01; 22/7/2014	1 µg/kg to 100 µg/kg
	Zinc (as Zn)		TP/C/47.1 Issue no. 01; 16/4/2014	0.1 mg/kg to 10 mg/kg
	Lead (as Pb)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
	Cadmium (as Cd)		TP/C/47.1 Issue no. 01; 16/4/2014	0.005 mg/kg to 10 mg/kg
	Arsenic (as As)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
	Mercury (as Hg)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
	Tin (as Sn)		TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	11 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Copper (as Cu)	TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg
		Phosphorous	AOAC (19 th Edition) 965.17: 2012	(1.0 g to 20.0 g)/100g
		Hydrocyanic acid	IS 11535: 1986	Qualitative
		Agaric acid	TP/C/14.8 Issue no. 01; 1/5/2014	0.4 mg/kg to 1000 mg/kg
		Hypericin	TP/C/14.24 Issue no. 01; 1/5/2014	0.2 mg/kg to 50mg/kg
		Saffrole	TP/C/14.25 Issue no. 01; 20/6/2014	0.01 mg/kg to 1000 mg/kg
		Nitrogen	IS 7219: 1973 (RA 2010)	0% to 10%
3.	Bakery and confectionery products Biscuits, Bread, Namkeen, wafers	Crude fiber	IS 1155: 1968 (RA 2009)	0.050% to 10.0%
		Carbohydrate	IS 1656: 2007 (RA 2009)	1.0 % to 80.0 %
		Energy	IS 14433: 2004	(5 kCal to 700 kCal)/100 gm
		Moisture	IS 1011: 2002	0.5% to 10%
		Acid insoluble ash	IS 1011: 2002	0.01% to 1%
		Acidity of extracted fat	IS 1011: 2002	0.1% to 5%
		Zinc (as Zn)	TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg
		Lead (as Pb)	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	12 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cadmium (as Cd)	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Arsenic (as As)	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Mercury (as Hg)	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Tin (as Sn)	TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg
		Nickel (as Ni)	TP/C/47.1 Issue no. 01; 16/4/2014	0.10 mg/kg to 10 mg/kg
4.	Sugar and by-products	Moisture	IS 6287: 1985 (RA 2005) / DGHS Lab Manual-4: 2012	0.01% to 30%
	Sweet, Sugar & Confectionery Products,	Sulphated ash	IS 6287: 1985 (RA 2005) / DGHS Lab Manual-4: 2012	0.01% to 20%
	Sugar, Sugar boiled confectionery,	Acid insoluble ash	IS 6287: 1985 (RA 2005) / DGHS Lab Manual-4: 2012	0.01% to 10%
	Milk toffee, Butter toffee, Lozenges,	Total proteins	IS 6287: 1985 (RA 2005) / DGHS Lab Manual-4: 2012	0.1% to 40%
	Chewing gum, Bubble gum,	Fat	IS 6287: 1985 (RA 2005)	0.1% to 30%
	Ice candy , Sweetening Agents- Sugar	Reducing sugar	IS 6287: 1985 (RA 2005)	0.1% to 60%
	Misri , Dextrose,	Sucrose	IS 6287: 1985 (RA 2005)	0.1% to 95%
	Golden Syrup, Dried Glucose Syrup	Sulphur dioxide	IS 4706 (Part 2): 1978	10 mg/kg to 5000 mg/kg
		Calcium oxide	IS 1797: 1985	(5 mg to 200 mg)/100g
		Total ash	IS 4706 (Part 2): 1978	0.01% to 30.0%

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	13 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Acidity as volume of 0.02 N standard sodium hydroxide solution required to neutralize 5 g of the material	IS 874: 1992	0.05 ml to 20 ml
		Total solid content	IS 874: 1992	50% to 99.9%
		pH	IS 4706 (Part 2): 1978	1.00 to 14.00
		Lead (as Pb)	TP/C/47.1, Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Copper (as Cu)	TP/C/47.1, Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg
		Zinc (as Zn)	TP/C/47.1, Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg
		Arsenic	AOAC (19 th Edition) 999.10: 2012	100 µg/kg to 10000 µg/kg
5.	Nuts& nut products Almond, Peanuts, Cashew nuts, Pista, Walnut, Nutmeg, Betel nut	Extraneous/Foreign matter, stones, dirt, clay, mould effect, Insects, mould/moldy shell ,discolored dead insects, insect fragments, insect infestation, rodent contamination, rodent hair & excreta	IS 15642 (Part 1): 2006	Qualitative
		Moisture	IS 4684: 1975 (RA 2005) DGHS Lab manual -5: 2005 IS 2813: 1995	0.01% to 50%
		Damaged kernel	IS 4333: 1996 (RA 2009) DGHS Lab manual -3: 2005 / IS 2813: 1995	0.01% to 50%
		Unopened shells	IS 4333: 1996 (RA 2009) / DGHS Lab manual -3: 2005 / IS 2813: 1995	0.01% to 40%

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	14 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Empty shell		IS 4333: 1996 (RA 2009) / DGHS Lab manual -3: 2005 / IS 2813: 1995	0.01% to 50%
	Blemished/damage unit		IS 4333: 1996 (RA 2009) / DGHS Lab manual -3: 2005 / IS 2813: 1995	0.01% to 50%
	Acidity of extracted fat		DGHS Lab manual-3: 2005 IS 1011: 2002	0.01% to 50%
	Ash insoluble in dilute HCl		IS 4684: 1975 (RA 2005)	0.01% to 5%
	Aflatoxin B ₁		TP/C/34.4 Issue no. 01; 22/7/2014	1.0 µg/kg to 100 µg/kg
	Aflatoxin B ₂		TP/C/34.4 Issue no. 01; 22/7/2014	1.0 µg/kg to 100 µg/kg
	Aflatoxin G ₁		TP/C/34.4 Issue no. 01; 22/7/2014	1.0 µg/kg to 100 µg/kg
	Aflatoxin G ₂		TP/C/34.4 Issue no. 01; 22/7/2014	1.0 µg/kg to 100 µg/kg
	Zinc (as Zn)		TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg
	Lead (as Pb)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
	Cadmium (as Cd)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
	Arsenic (as As)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
	Mercury (as Hg)		TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
	Tin (as Sn)		TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	15 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	Food Additives Guar Gum	Protein	IS 7219: 1973 (RA 2010)	0.01 % to 10 %
		Purity as glactomannans	IS 10502: 1993 (RA 2010)	50 % to 100 %
		Acid insoluble matter	IS 10502: 1993 (RA 2010)	0.5 % to 10 %
		Total ash	IS 10502: 1993 (RA 2010)	0.5 % to 5 %
		Starch	IS 10502: 1993 (RA 2010)	Qualitative test
		Loss on drying/Moisture	IS 7928: 1993 (RA 2008)	1 % to 30 %
		Lead	TP/C/47.1 Issue no. 01; 16/4/2014	0.01 mg/kg to 10 mg/kg
		Arsenic	TP/C/47.1 Issue no. 01; 16/4/2014	0.01 mg/kg to 10 mg/kg
		Tin	TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg
		Zinc	TP/C/47.1 Issue no. 01; 16/4/2014	0.5 mg/kg to 10 mg/kg
		Mercury	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Iron	AOAC (19 th Edition) 999.11: 2012	2.5 mg/kg to 100.0 mg/kg
		Calcium	AOAC (19 th Edition) 999.11: 2012 / AOAC (19 th Edition) 985.35: 2012	50 mg/kg to 1000 mg/kg
7.	Processed Foods Bakery and Confectionary Products, Processed and Canned Food, Nutritional Supplements	Total ash	IS 15271: 2003 (RA 2009) / IS 1011: 2002 (RA 2009)	(0.2 g to 10 g)/100g
		Acid insoluble ash	IS 15271: 2003 (RA 2009) / IS 1011: 2002 (RA 2009)	(0.01 g to 5 g)/100g

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	16 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Complimentary Foods, Milk and Milk Products, Nuts and its Products, Sugar based products, Ready to eat foods, Beverages, Infants foods, Traditional Snacks Food, Dehydrated Products, Frozen Product	Saturated fat	TP/C/14.35 Issue no. 01; 8/01/2014	(0.5 g to 15 g)/100g
		Unsaturated fat	TP/C/14.35 Issue no. 01; 8/01/2014	(0.5 g to 10 g)/100g
		Trans fatty acid	TP/C/14.35 Issue no. 01; 8/01/2014	(0.5 g to 10 g)/100g
		Protein	IS 7219: 1973 (RA 2010)	(0.5 g to 70 g)/100 g
		Sucrose	IS 2650: 1975 (RA 2005)	(1 g to 70 g)/100g
		Carbohydrate	IS 1656: 1997 (RA 2007)	(2 g to 98 g)/100g
		Energy	IS 14433: 2004	(15 kcal to 900 kcal)/100g
		Cholesterol	TP/C/14.6 Issue no. 01; 3/6/2013	10 mg/kg to 1000 mg/kg
		Dietary fibre	AOAC (16 th Edition; Vol 2) 985.29: 1997	(0.2 g to 15 g)/100g
		Calcium	IS 9487: 1980 (RA 2005)/ AOAC (19 th Edition) 975.03: 2012	10 mg/kg to 1000 mg/kg
		Iron	AOAC (19 th Edition) 999.11: 2012	25 mg/kg to 100.0 mg/kg
		Vitamin A	TP/C/14.12 Issue no.01; 3/6/2014	(10 IU to 20,000 IU)/100g
		Vitamin C	IS 5838: 2005/ AOAC (19 th Edition) 985.33: 2012	(0.5 mg to 200 mg)/100g

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	17 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	Animal feeds Animal feed & pet food	Moisture	IS 7874 (Part 1): 1975	(0.5 g to 20.0 g)/100g
		Total ash	IS 7874 (Part 1): 1975	(0.05 g to 10 g)/100g
		Protein	IS 7219: 1973 (RA 2010)	(1.0 g to 60 g)/100g
		Urea	AOAC (19 th Edition) 967.07: 2012	(5 g to 100 g)/100g
		Crude fat	IS 7874 (Part 1): 1975	(0.5 g to 50 g)/100g
		Crude fibre	IS 7874 (Part 1): 1975	(0.2 g to 20.0 g)/100g
		Sucrose	AOAC (19 th Edition) 925.05: 2012	(1.0 g to 20.0 g)/100g
		Lead	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Arsenic	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Mercury	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Cadmium	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Nickel	TP/C/47.1 Issue no. 01; 16/4/2014	0.10 mg/kg to 10 mg/kg
		Tin	TP/C/47.1 Issue no. 01; 16/4/2014	0.50 mg/kg to 10 mg/kg
9.	Oil, fats and related products Vegetable oil - Mustard oil, Soybean oil, olive oil, coconut oil, cottonseed oil, groundnut oil	Moisture and volatile percentage	IS 548 (Part 1): 1964 (RA 2010)	0.01 % to 10 %
		Peroxide value	IS 548 (Part 1): 1964 (RA 2010)	0 meq/kg to 50 meq/kg
		Free fatty acid	IS 548 (Part 1): 1964 (RA 2010)	0.1 % to 10 %
		Iodine value	IS 548 (Part 1): 1964 (RA 2010)	5 to 200

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	18 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Moisture	IS 548 (Part 1): 1964 (RA 2010)	0.02 % to 5 %
		Reichert meissl value	IS 548 (Part 1): 1964 (RA 2010)	0.05 to 50
		Butyro refractometer reading	IS 548 (Part 1): 1964 (RA 2010)/ DGHS Lab manual -2: 2012	0.1 to 100
		Boudouin test	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
		Refractive index	IS 548 (Part 1): 1964 (RA 2010)	1.330 to 1.5000
		Melting point	IS 548 (Part 1): 1964 (RA 2010)	10°C to 100°C
		Saturated fat	TP/C/14.35 Issue no. 01; 8/1/2014	(0.02 g to 99 g)/100g
		Mono unsaturated fat	TP/C/14.35 Issue no. 01; 8/1/2014	(0.02 g to 99 g)/100g
		Poly unsaturated fat	TP/C/14.35 Issue no. 01; 8/1/2014	(0.02 g to 99 g)/100g
		Trans fat	TP/C/14.35 Issue no. 01; 8/1/2014	(0.02 g to 99 g)/100g
		Aflatoxin B ₁	TP/C/34.4 Issue no. 01; 22/7/2014	1 µg/kg to 100µg/kg
		Aflatoxin B ₂	TP/C/34.4 Issue no. 01; 22/7/2014	1 µg/kg to 100µg/kg
		Aflatoxin G ₁	TP/C/34.4 Issue no. 01; 22/7/2014	1 µg/kg to 100µg/kg
		Aflatoxin G ₂	TP/C/34.4 Issue no. 01; 22/7/2014	1 µg/kg to 100µg/kg
		Lead (as Pb)	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Arsenic (as As)	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Mercury (as Hg)	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	19 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cadmium (as Cd)	TP/C/47.1 Issue no. 01; 16/4/2014	0.05 mg/kg to 10 mg/kg
		Nickel (as Ni)	TP/C/47.1 Issue no. 01; 16/4/2014	0.10 mg/kg to 10 mg/kg
		Tin (as Sn)	TP/C/47.1 Issue no. 01; 16/4/2014	0.50 mg/kg to 10 mg/kg
		Saponification value	IS 548 (Part 1): 1964 (RA 2010)	1 to 500
		Unsaponifiable matter	IS 548 (Part 1): 1964 (RA 2010)	0.03 % to 50 %
		Polenske value	IS 548 (Part 1): 1964 (RA 2010)	0.1 to 13
		Flash point	DGHS Lab manual 2: 2005	30°C to 360°C
		Specific gravity	IS 548 (Part 1): 1964 (RA 2010)	0.860 to 0.968
		Bellier turbidity temperature	IS 458 (Part 2): 1976 / DGHS Lab manual 2: 2005	1°C to 80°C
		Polybromide test	IS 548 (Part 2): 1976 (RA 2010) / DGHS Lab manual 2: 2005	Qualitative
		Mineral oil	IS 548 (Part 2): 1976 (RA 2010)/ DGHS Lab manual 2: 2005	Qualitative
		Castor oil	IS 548 (Part 2): 1976 (RA 2010) / DGHS Lab manual 2: 2005	Qualitative
		Argemone oil	IS 548 (Part 2): 1976 (RA 2010) / DGHS Lab manual 2: 2005	Qualitative
		Hydrocyanic acid	IS 548 (Part 2): 1976 (RA 2010) / DGHS Lab manual 2: 2005	Qualitative
		Rancidity	IS 548 (Part 2): 1976 (RA 2010) / DGHS Lab manual 2: 2005	Qualitative
		Pungency	IS 546: 1975 / DGHS Lab manual 2: 2005	Qualitative

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	20 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
10.	Pesticides Residues in Food A.) Milk & Diary Products - Pasteurized Milk, Condensed Milk, Skimmed Milk Powder, Paneer, Khoa, Pasteurized Butter, Butter Oil, Cream	Aldrin	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Dieldrin	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Cis-Chlordane	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		trans-Chlordane	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		2, 4-DDD	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		4, 4-DDD	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		2, 4-DDE	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		4, 4-DDE	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		2, 4-DDT	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		4, 4-DDT	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Fenitrothion	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Heptachlor	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Heptachlor epoxide	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Alpha-HCH	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Beta HCH	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Lindane	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Delta HCH	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Chlorfenvinphos	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	21 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Chlorpyrifos		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	2,4-D		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Ethion		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Monocrotophos		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Paraquat dichloride		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Carbendazim		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Benomyl		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Carbofuran		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	3-hydroxy carbofuran		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Edifenfos		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Fenthion		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Fenthion sulfone		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Fenthion sulfoxide		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Fenvalerate		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Phenthoate		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Phorate		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Phorate sulfone		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Phorate sulfoxide		TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	22 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Primiphos methyl	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Parathion methyl	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Methoxychlor	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Phosalone	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Diazinon	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Cypermethrin	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Coumaphos	TP/C/14.10 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Pesticides Residues in Food	Organochlorine Pesticides		
	All type of Food	Beta-BHC	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Grains	Gamma-BHC (Lindane)	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Atta, Fortified Atta, Maida, Fortified Maida, Suji, Besan, Wheat, Maize, Bajra, Rice, Pulses	Delta-BHC	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	guar gum	Aldrin	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		DDD and its isomers	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		DDE and its isomers	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		DDT and its isomers	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Dieldrin	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Endrin	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Heptachlor	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	23 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Organophosphorus Pesticides			
	Alachlor		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Atrazine		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Butachlor		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Chlorpyrifos		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Dichlorvos		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Dimethoate		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Ethion		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Fenitrothion		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Fenthion		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Malathion		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Monocrotophos		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Phorate		TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Synthetic Pyrethroids			
	Cypermethrin		TP/C/46.3 Issue no. 01; 1/5/2014	10 µg/kg to 100 µg/kg
	Permethrin		TP/C/46.3 Issue no. 01; 1/5/2014	10 µg/kg to 100 µg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	24 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chlorinated Acids/Organic Acid Pesticides		
		2,4-D	TP/C/46.3 Issue no. 01; 1/5/2014	10 µg/kg to 100 µg/kg
		Carbamate Pesticides		
		Aldicarb	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Carbofuran	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Carbaryl	TP/C/46.3 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Pesticides Residues in Food	Aldrin	TP/C/46.4 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Vegetable Oil - Mustard oil,	Phosalone	TP/C/46.4 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Soyabean oil, olive oil, coconut oil,	Triclofon	TP/C/46.4 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	cottonseed oil, groundnut oil	Phenthoate	TP/C/46.4 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
		Phorate	TP/C/46.4 Issue no. 01; 1/5/2014	5.0 µg/kg to 100 µg/kg
	Pesticides Residues in Food	β-HCH	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	Fruits and Vegetable Products (Fresh & Processed)	Phorate	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Dieldrin	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Dichlorvos	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Monocrotophos	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	25 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Lindane		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	Paraxon methyl		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	Malaxon		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	Methyl parathion		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	Alachlor		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	Malathion		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	Aldrin		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	Butachlor		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	4, 4-DDE		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	Endrin		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	2, 4-DDD		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
	4, 4-DDD		AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	26 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Ethion	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Phorate sulfone	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Deltamethirn	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Carbendazim	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Dimethoate	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Isoproturon	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Quinalphos	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Atrazine	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Triazophos	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
		Chlorfenvinphos	AOAC (19 th edition) 2007.01: 2012	10 µg/kg to 1000 µg/kg
11.	Spices and Condiments Turmeric Powder	Dyes	IS 15642 (Part 2): 2006 (RA 2009)	Qualitative
	Spices and Condiments Chili Powder	Sudan III	IS 15642 (Part 2): 2006 (RA 2009)	Qualitative

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	27 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Spices and Condiments	Chloride content as NaCl	IS 253: 1985 (RA 2004)	80 % to 100 %
	Edible Common Salt	Matter soluble in water other than NaCl	IS 253: 1985 (RA 2004)	0.1 % to 10 %
		Water insoluble matter	IS 253: 1985 (RA 2004)	0.01 % to 5 %
		Moisture	IS 253: 1985 (RA 2004)	0.01 % to 10 %
		Acid insoluble matter	IS 253: 1985 (RA 2004)	0.1 % to 3 %
		Calcium	IS 253: 1985 (RA 2004)	0.001 % to 0.2 %
		Magnesium	IS 253: 1985 (RA 2004)	0.005 % to 0.2 %
		Sulphates	IS 253: 1985 (RA 2004)	0.1 % to 1.0 %
		Alkalinity	IS 253: 1985 (RA 2004)	0.01 % to 0.30 %
	Spices and Condiments	Moisture	IS 7224: 2006	0.01 % to 10 %
	Iodized Salt	Water insoluble matter	IS 7224: 2006	0.1 % to 10 %
		Chloride content	IS 7224: 2006	80 % to 100 %
		Matter soluble in water other than NaCl	IS 7224: 2006	0.1 % to 10 %
		Iodine content	IS 7224: 2006	1 mg/Kg to 100 mg/Kg
		Calcium	IS 253: 1985 (RA 2004)	0.01 % to 0.20 %
		Magnesium	IS 253: 1985 (RA 2004)	0.01 % to 0.20 %
		Sulphate	IS 7224: 2006	0.1 % to 1.0 %
		Alkalinity	IS 7224: 2006	0.01 % to 0.4 %

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	28 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Spices and Condiments Garam Masala	Lead	AOAC (19 th edition) 999.11: 2012	0.1 mg/kg to 10 mg/kg
12.	Alcoholic Drinks & Beverages Beer	Ethyl alcohol content, percent (v/v)	IS 3865: 2001 (RA 2009)	0.2 % to 10.0 %
		pH	IS 3865: 2001 (RA 2009)	2 to 12
		Methyl alcohol content	IS 3865: 2001 (RA 2009)	(10 g to 100 g)/100 L
	Alcoholic Drinks & Beverages Whiskey	Residue, percent	IS 3752: 2005 (RA 2009)	(0.01 g to 3 g)/100 L
		Volatile acids as acetic acid	IS 3752: 2005 (RA 2009)	(1 g to 200 g)/100 L
		Esters as ethyl acetate	IS 3752: 2005 (RA 2009)	(10 g to 250 g)/100 L
		Higher alcohol as amyl alcohol	IS 3752: 2005 (RA 2009)	(0.1 g to 400 g)/100 L
		Aldehydes as acetaldehyde	IS 3752: 2005 (RA 2009)	(1 g to 75 g)/100 L
		Copper (as Cu)	IS 3752: 2005 (RA 2009) / TP/C/14.9 Issue no 01, 16/4/2014	0.001 mg/L to 10 mg/L
		Methyl alcohol	IS 3752: 2005 (RA 2009)	(1 g to 35 g)/100 L
	Alcoholic Drinks & Beverages Rum	Residue, percent	IS 3752: 2005 (RA 2009)	0.1 % to 35 %
		Volatile acids as acetic acid	IS 3752: 2005 (RA 2009)	(1 g to 150 g)/100 L
		Esters as ethyl acetate	IS 3752: 2005 (RA 2009)	(10 g to 250 g)/100 L
		Higher alcohol as amyl alcohol	IS 3752: 2005 (RA 2009)	(0.1 g to 100 g)/100 L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	29 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Aldehydes as acetaldehyde	IS 3752: 2005 (RA 2009)	(5 g to 40 g)/100 L
		Copper (as Cu)	IS 3752: 2005 (RA 2009) / TP/C/14.9 Issue no 01, 16/4/2014	0.001 mg/L to 10 mg/L
		Methyl alcohol	IS 3752: 2005 (RA 2009)	(1 g to 200 g)/100 L
	Alcoholic Drinks & Beverages Gin	Residue, percent	IS 3752: 2005 (RA 2009)	0.01 % to 30 %
		Volatile acids as acetic acid	IS 3752: 2005 (RA 2009)	(1 g to 15 g)/100 L
		Esters as ethyl acetate	IS 3752: 2005 (RA 2009)	(1 g to 55 g)/100 L
		Higher alcohol as amyl alcohol	IS 3752: 2005 (RA 2009)	(0.1 g to 175 g)/100 L
		Aldehydes as acetaldehyde	IS 3752: 2005 (RA 2009)	(10 g to 30 g)/100 L
		Copper (as Cu)	IS 3752: 2005 (RA 2009) / TP/C/14.9 Issue no 01, 16/4/2014	0.001 mg/L to 10 mg/L
		Methyl alcohol	IS 3752: 2005 (RA 2009)	(1 g to 1500 g)/100 L
	Alcoholic Drinks & Beverages Vodka	Residue	IS 3752: 2005 (RA 2009)	0.1 % to 10 %
		Volatile acids as acetic acid	IS 3752: 2005 (RA 2009)	(0.1 g to 35 g)/100 L
		Esters as ethyl acetate	IS 3752: 2005 (RA 2009)	(1 g to 150 g)/100 L
		Higher alcohol as amyl alcohol	IS 3752: 2005 (RA 2009)	(0.1 g to 150 g)/100 L
		Aldehydes as acetaldehyde	IS 3752: 2005 (RA 2009)	(5 g to 25 g)/100 L
		Copper (as Cu)	IS 3752: 2005 (RA 2009) / TP/C/14.9 Issue no 01, 16/4/2014	0.001 mg/L to 10 mg/L
		Methyl alcohol	IS 3752: 2005 (RA 2009)	(1 g to 15 g)/100 L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	30 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Alcoholic Drinks & Beverages Brandies	Residue	IS 3752: 2005 (RA 2009)	0.01 % to 3 %
		Volatile acids as acetic acid	IS 3752: 2005 (RA 2009)	(5 g to 150 g)/100 L
		Esters as ethyl acetate	IS 3752: 2005 (RA 2009)	(5 g to 400 g)/100 L
		Higher alcohol as amyl alcohol	IS 3752: 2005 (RA 2009)	(0.1 g to 200 g)/100 L
		Aldehydes as acetaldehyde	IS 3752: 2005 (RA 2009)	(2 g to 50 g)/100 L
		Copper (as Cu)	IS 3752: 2005 (RA 2009) TP/C/14.9 Issue no 01, 16/4/2014	0.001 mg/L to 10 mg/L
		Methyl alcohol	IS 3752: 2005 (RA 2009)	(1 g to 250 g)/100 L
13.	Honey and Honey Products Honey	Specific gravity	IS 4941: 1994 (RA 2008)	0.1 to 3
		Moisture	IS 4941: 1994 (RA 2008)	2.0 % to 25 %
		Ash	IS 4941: 1994 (RA 2008)	0.01 % to 5 %
		Acidity	IS 4941: 1994 (RA 2008)	0.01 % to 5 %
14.	Fruits and vegetable products Fruits and vegetable products (Fresh & Processed)	Moisture	IS 1155: 1968/ DGHS Lab Manual 5: 2005	0.5 % to 80 %
		Ash	IS 1155: 1968/ AOAC (19 th edition) 925.51A : 2012	0.5 % to 10 %
		Lead	TP/C/14.9 Issue no 01, 16/4/2014	0.001 µg/kg to 200 µg/kg
		Arsenic	TP/C/14.9 Issue no 01, 16/4/2014	0.001 µg/kg to 100 µg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	31 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Zinc	TP/C/14.9 Issue no 01, 16/4/2014	0.001 µg/kg to 100 µg/kg
		Fibre	IS 4706 (Part 2): 1978 (RA 2010)	0.01 % to 10 %
		Protein	IS 7219: 1973/ AOAC (19 th edition) 920.152: 2012	1 % to 50 %
		Fat	IS 4684: 1975 (RA 2010)	1 % to 50 %
		Carbohydrate	IS 1656: 2007	1 % to 80 %
		Energy	IS 14433: 2007	5 Kcal to 100 Kcal
		pH of acidified food	AOAC (19 th edition) 981.12: 2012	1 to 14
II.	WATER			
1.	Potable and Domestic Water	pH	IS 3025 (Part 11): 1983 (RA 2002)	0.1 to 12
		Chloride	IS 3025 (Part 32): 1988 (RA 2003)	5 mg/L to 2000 mg/L
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003)	5 mg/L to 200 mg/L
		Volatile residue (Total, filterable and non-filterable)	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/L to 200 mg/L
		Fixed residue (Total, filterable and non-filterable)	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/L to 5000 mg/L
		Acidity	IS 3025 (Part 22): 1986 (RA 2003)	10 mg/L to 1000 mg/L
		Alkalinity (Phenolphthalein alkalinity & Total alkalinity)	IS 3025 (Part 23): 1986 (RA 2003)	10 mg/L to 1000 mg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	32 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total suspended solids	IS 3025 (Part 17): 1984 (RA 2002)	10 mg/L to 100 mg/L
		Total dissolved solids	IS 3025 (Part 16): 1984 (RA 2002)	5 mg/L to 5000 mg/L
		Specific conductance	IS 3025 (Part 14): 1984 (RA 2002)	8 µS/cm to 2000 µS/cm
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	1 NTU to 1000 NTU
		Total hardness (CaCO ₃)	IS 3025 (Part 21): 2009	5 mg/L to 2000 mg/L
		Fluoride	IS 3025 (Part 60): 2008	0.2 mg/L to 25 mg/L
		Iron	IS 3025 (Part 53): 2003	0.08 mg/L to 5 mg/L
		Total solids	IS 3025 (Part 15): 1984 (RA 2003)	5 mg/L to 10000 mg/L
		Colour	IS 3025 (Part 4): 1983 (RA 2002)	1 Hazen units to 100 Hazen units
		Sodium	IS 3025 (Part 45): 1993 (RA 2003)	1 mg/L to 2000 mg/L
		Potassium	IS 3025 (Part 45): 1993 (RA 2003)	1 mg/L to 2000 mg/L
		Calcium	IS 3025 (Part 40): 1991 (RA 2003)	2 mg/L to 1000 mg/L
		Magnesium	IS 3025 (Part 46): 1994 (RA 2003)	2 mg/L to 1000 mg/L
		Nitrate	IS 3025 (Part 34): 1988 (RA 2003)	5 mg/L to 200 mg/L
		Nitrite	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/L to 100 mg/L
		Residual free chlorine	IS:3025 (Part 26): 1986 (RA 2003)	0.18 mg/L to 5 mg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	33 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Bore Water	pH	IS 3025 (Part 11): 1983 (RA 2002)	0.1 to 12
		Chloride (Cl)	IS 3025 (Part 32): 1988 (RA 2003)	5 mg/L to 2000 mg/L
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003)	5 mg/L to 200 mg/L
		Volatile residue (Total, filterable and non-filterable)	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/L to 200 mg/L
		Fixed residue (Total, filterable and non-filterable)	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/L to 5000 mg/L
		Acidity	IS 3025 (Part 22): 1986 (RA 2003)	1 mg/L to 1000 mg/L
		Alkalinity (Phenolphthalein alkalinity & Total alkalinity)	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/L to 1000 mg/L
		Total suspended solids	IS 3025 (Part 17): 1984 (RA 2002)	1 mg/L to 100 mg/L
		Total dissolved solids	IS 3025 (Part 16): 1984 (RA 2002)	5 mg/L to 5000 mg/L
		Specific conductance	IS 3025 (Part 14): 1984 (RA 2002)	0.2 µS/cm to 2 S/cm
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	1 NTU to 1000 NTU
		Total hardness (CaCO ₃)	IS 3025 (Part 21): 2009	5 mg/L to 2000 mg/L
		Fluoride	IS 3025 (Part 60): 2008	0.2 mg/L to 25 mg/L
		Iron	IS 3025 (Part 53): 2003	0.08 mg/L to 5 mg/L
		Total solids	IS 3025 (Part 15): 1984 (RA 2003)	1 mg/L to 10000 mg /l
		Colour	IS 3025 (Part 4): 1983 (RA 2002)	1 Hazen unit to 100 Hazen units

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	34 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sodium	IS 3025 (Part 45): 1993 (RA 2003)	1 mg/L to 2000 mg/L
		Potassium	IS 3025 (Part 45): 1993 (RA 2003)	1 mg/L to 2000 mg/L
		Calcium	IS 3025 (Part 40): 1991 (RA 2003)	2 mg/L to 1000 mg/L
		Magnesium	IS 3025 (Part 46): 1994 (RA 2003)	2 mg/L to 1000 mg/L
		Nitrate	IS 3025 (Part 34): 1988 (RA 2003)	5 mg/L to 200 mg/L
		Nitrite	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/L to 100 mg/L
3.	Waste Water	pH	IS 3025 (Part 11): 1983 (RA 2002)	2 to 12
		Chloride	IS 3025 (Part 32): 1988 (RA 2003)	5 mg/L to 5000 mg/L
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003)	5 mg/L to 2000 mg/L
		Volatile residue (Total, filterable & non-filterable)	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/L to 2000 mg/L
		Fixed residue (Total, filterable & non-filterable)	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/L to 5000 mg/L
		Acidity	IS 3025 (Part 22): 1986 (RA 2003)	1 mg/L to 1000 mg/L
		Alkalinity (Phenolphthalein alkalinity & Total alkalinity)	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/L to 1000 mg/L
		Total suspended solids	IS 3025 (Part 17): 1984 (RA 2002)	10 mg/L to 1000 mg/L
		Total dissolved solids	IS 3025 (Part 16): 1984 (RA 2002)	5 mg/L to 5000 mg/L
		Specific conductance	IS 3025 (Part 14): 1984 (RA 2002)	0.2 μ S/cm to 2 S/cm

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	35 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	1 NTU to 1000 NTU
		Total hardness (CaCO ₃)	IS 3025 (Part 21): 2009	5 mg/L to 2000 mg/L
		Temperature	IS 3025 (Part 9): 1984 (RA 2002)	(-)10°C to 110°C
		Iron	IS 3025 (Part 53): 2003	0.08 mg/L to 5 mg/L
		Total solids	IS 3025 (Part 15): 1984 (RA 2003)	5 mg/L to 10000 mg /L
		Dissolved oxygen	IS 3025 (Part 38): 1989 (RA 2003)	0.5 mg/L to 10 mg/L
		Biochemical oxygen demand (3 & 5 days at 27°C)	IS 3025 (Part 44): 1993 (RA 2003)	2 mg/L to 10000 mg/L
		Chemical oxygen demand	IS 3025 (Part 58): 2006	2 mg/L to 10000 mg/L
		Colour	IS 3025 (Part 4): 1983 (RA 2002)	1 Hazen unit to 100 Hazen unit
		Calcium	IS 3025 (Part 40): 1991 (RA 2003)	2 mg/L to 1000 mg/L
		Magnesium	IS 3025 (Part 46):1994 (RA 2003)	2 mg/L to 1000 mg/L
		Nitrate	IS 3025 (Part 34): 1988 (RA 2003)	5 mg/L to 200 mg/L
		Nitrite	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/L to 100 mg/L
		Total kjeldahl nitrogen	IS 3025 (Part 34): 1988 (RA 2003)	2 mg/L to 500 mg/L
		Fluoride (as F)	IS 3025 (Part 60): 2008	0.02 mg/L to 10 mg/L
		Sodium (as Na)	IS 3025 (Part 45): 1993 (RA 2005)	1.0 mg/L to 10000 mg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	36 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potassium (as K)		IS 3025 (Part 45): 1993 (RA 2003)	1 mg/L to 2000 mg/L
	Phenolic compounds		IS 3025 (Part 43): 1992 (RA 2003)	0.005 mg/L to 1000 mg/L
	Oil & Grease		IS 3025 (Part 39): 1991 (RA 2003)	0.5 mg/L to 1000 mg/L
	Anionic surface active agents (as MBAS)		IS 13428: 2005	0.05 mg/L to 1000 mg/L
	Iron (as Fe)		IS 3025 (Part 53): 2003 (RA 2009)/ APHA (22 nd Edition) 3111: 2012	0.25 mg/L to 10mg/L
	Mercury (as Hg)		IS 3025 (Part 48): 1994 (RA 2003)/ APHA (22 nd Edition) 3125: 2012	0.01 mg/L to 100 mg/L
	Cadmium (as Cd)		APHA (22 nd Edition) 3125: 2012	0.01 mg/L to 100 mg/L
	Arsenic (as As)		APHA (22 nd Edition) 3125: 2012	0.01 mg/L to 100 mg/L
	Lead (as Pb)		APHA (22 nd Edition) 3125: 2012	0.01 mg/L to 100 mg/L
	Chromium (as Cr)		APHA (22 nd Edition) 3125: 2012	0.01 mg/L to 100 mg/L
	Nickel (as Ni)		APHA (22 nd Edition) 3125: 2012	0.01 mg/L to 100 mg/L
	Copper (as Cu)		APHA (22 nd Edition) 3125: 2012	0.01 mg/L to 100 mg/L
	Zinc (as Zn)		APHA (22 nd Edition) 3125: 2012	0.01 mg/L to 100 mg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	37 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Polynuclear aromatic hydrocarbons			
	Acenaphthene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Acenaphthylene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Anthracene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(a)anthracene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(b)fluoranthene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(k) fluoranthene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(g,h,i)perylene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(a)pyrene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Chrysenes		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Dibenzo(a,h) anthracene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Fluoranthene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	38 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fluorene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Indeno (1,2,3-c,d) pyrene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Naphthalene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Phenanthrene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Pyrene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Polychlorinated biphenyls (PCBs)			
	2-Chlorobiphenyl		APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	2,2',3,3',4,4',6-Heptachlorobiphenyl		APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	2,2',3,3',4,5',6,6'-Octachlorobiphenyl		APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	2,2',3',4,6-Pentachlorobiphenyl		APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	2,2',4,4'-Tetrachlorobiphenyl		APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	2,2',4,4',5,6'-Hexachlorobiphenyl		APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	2,3-Dichlorobiphenyl		APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	39 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	Construction Water	2,4,5- Trichlorobiphenyl	APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
		Sulphide (as H ₂ S)	APHA (22 nd Edition) 4500: 2012	0.002 mg/L to 10 mg/L
		Ammonical nitrogen (NH ₃ -N)	IS 3025 (Part 34): 1988 (RA 2003)	2 mg/L to 500 mg/L
		Volume of 0.02N NaOH required to neutralize 100 ml sample of water	IS 3025 (Part 22): 1986 (RA 2003)	0.1 ml to 100 ml
		Volume of 0.02N H ₂ SO ₄ required to neutralize 100 ml sample of water	IS 3025 (Part 23): 1986 (RA 2003)	0.1 ml to 100 ml
		Organic	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/L to 2000 mg/L
		Inorganic	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/L to 5000 mg/L
		Sulphate (as SO ₃)	IS 3025 (Part 24): 1986 (RA 2003)	5 mg/L to 2000 mg/L
		Chloride (as Cl)	IS 3025 (Part 32): 1988 (RA 2003)	5 mg/L to 5000 mg/L
		Suspended matter	IS 3025 (Part 17): 1984 (RA 2002)	10 mg/L to 5000 mg/L
5.	Water used for Swimming Pool Purpose	pH	IS 3025 (Part 11): 1983 (RA 2002)	2 to 12
		pH	IS 3025 (Part 11): 1983 (RA 2002)	1 to 12
		Total alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/L to 1000 mg/L
		Aluminium	IS 3025 (Part 55): 2003	0.01 mg/L to 1 mg/L
		Total residual chlorine	IS 3025 (Part 26): 1986 (RA 2003)	0.18 mg/L to 5 mg/L
		Oxygen absorbed in 4 hours	IS 3025 (Part 51): 1964	0.1 mg/L to 5 mg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	40 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total dissolved solids	IS 3025 (Part 15): 1984 (RA 2003)	5 mg/L to 10000 mg /l
		Chloride	IS 3025 (Part 32): 1988 (RA 2003)	1 mg/L to 5000 mg/L
		Iron	IS 3025 (Part 53): 2003	0.08 mg/L to 5 mg/L
		Colour	IS 3025 (Part 4): 1983 (RA 2002)	1 Hazen unit to 100 Hazen unit
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	1 NTU to 1000 NTU
		Odour	IS 3025 (Part 5): 1983 (RA 2002)	Qualitative
		Clearance	IS 3328: 1993 (RA 2008)	Qualitative
6.	Drinking Water, Packaged Natural Mineral Water, Packaged Drinking water (other than packaged Natural Mineral Water), Process Water	Colour	IS 3025 (Part 4): 1987 (RA 2003)	1 Hazen unit to 100 Hazen unit
		Odour	IS 3025 (Part 5): 1983 (RA 2002)	Qualitative
		Taste	IS 3025 (Part 8): 1984 (RA 2002)	Qualitative
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	1 NTU to 100 NTU
		Total dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)	1 mg/L to 2000 mg/L
		pH value	IS 3025 (Part 11): 1983 (RA 2002)	2 to 12
		Cyanide	IS 3025 (Part 27): 1983 (RA 2002)	Qualitative

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	41 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
General parameters concerning substances undesirable in excessive amounts				
	Iron (as Fe)		IS 3025(Part 53): 2003 (RA 2009)/ APHA(22 nd Edition)3111: 2012	0.25 mg/L to 10 mg/L
	Barium (as Ba)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Copper (as Cu)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Manganese (as Mn)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Sulphide (as H ₂ S)		APHA (22 nd Edition) 4500 : 2012	0.002 mg/L to 10 mg/L
	Zinc (as Zn)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Antimony (as Sb)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Borates (as B)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Silver (as Ag)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Selenium (as Se)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
Toxic substances				
	Cadmium (as Cd)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Arsenic (as As)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Lead (as Pb)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Chromium (as Cr)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L
	Nickel (as Ni)		APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 10 mg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	42 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Mercury (as Hg)	IS 3025(Part 48): 1994 (RA 2003) / APHA (22 nd Edition) 3125: 2012	0.005 mg/L to 100 mg/L
		Nitrate (as NO ₃)	IS 3025 (Part 34): 1988 (RA 2003)	0.5 mg/L to 100 mg/L
		Nitrite (as NO ₂)	IS 3025 (Part 34): 1988 (RA 2003)	0.01 mg/L to 10 mg/L
		Fluoride (as F)	IS 3025 (Part 60): 2008	0.02 mg/L to 10 mg/L
		Aluminium (as Al)	IS 3025(Part 55): 2003 (RA 2009) / APHA (22 nd Edition) 3125: 2012	0.01 mg/L to 100 mg/L
		Chloride (as Cl)	IS 3025 (Part 32): 1988 (RA 2003)	0.3 mg/L to 10000 mg/L
		Sulphate (as SO ₄)	IS 3025 (Part 24): 1986 (RA 1992)	1 mg/L to 10000 mg/L
		Alkalinity (as CaCO ₃)	IS 3025 (Part 23): 1986 (RA 2003)	0.5 mg/L to 10000 mg/L
		Calcium (as Ca)	IS 3025 (Part 40): 1991 (RA 2003)	0.4 mg/L to 10000 mg/L
		Magnesium (as Mg)	IS 3025 (Part 46): 1994 (RA 2003)	1 mg/L to 10000 mg/L
		Sodium (as Na)	IS 3025 (Part 45): 1993 (RA 2005)	1.0 mg/L to 100 mg/L
		Residual free chlorine	IS 3025 (Part 26): 1986 (RA 2003)	0.05 mg/L to 10000 mg/L
		Phenolic compounds	IS 3025 (Part 43): 1992 (RA 2003)	0.01 mg/L to 0.02 1000 mg/L
		Mineral oil	IS 3025 (Part 39): 1991 (RA 2003)	0.5 mg/L to 1000 mg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	43 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Anionic surface active agents (as MBAS)	IS 13428: 2005	0.05 mg/L to 1000 mg/L
		Polynuclear aromatic hydrocarbons		
	Acenaphthene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Acenaphthylene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Anthracene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(a) anthracene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(b) fluoranthene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(k) fluoranthene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(g, h, i) perylene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Benzo(a) pyrene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Chrysenes		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Dibenzo(a, h) anthracene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	44 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fluoranthene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Fluorene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Indeno (1,2,3-c,d) Pyrene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Naphthalene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Phenanthrene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Pyrene		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
	Residual Pesticides			
	P.P.- DDT or 4,4 –DDT		USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
	O.,P.- DDT or 2,4 –DDT		USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
	O.,P.- DDE or 2,4 – DDE		USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01 ; 3/6/2014	0.01 µg/L to 100 µg/L
	P.P.- DDE or 4,4 –DDE		USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	45 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		O,P.- DDD or 2,4 – DDD	USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
		P.P.- DDD or 4,4 –DDD	USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
		α – HCH	USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01 ; 3/6/2014	0.01 µg/L to 100 µg/L
		α–Endosulfan	USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
		β- Endosulfan	USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
		Endosulfan sulfate	USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
		Delta - HCH	USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
		Chlorpyrifos	USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
		Butachlor	USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	46 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Atrazine		USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01 ; 3/6/2014	0.01 µg/L to 100 µg/L
	Phorate sulfoxide		USEPA 8141A: 1994 / TP/C/2.29(A) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
	Isoproturon		USEPA 532 : 2000 / TP/C/2.29 (B) Issue no. 01; 3/6/2014	0.01 µg/L to 100 µg/L
	2,4 - D		USEPA 515.1: 1989 / TP/C/2.29 (B) Issue no. 01; 4/6/2014	0.02 µg/L to 100 µg/L
	Dichlorvos		USEPA 525.2: 1995 / AOAC (19 th Edition) 990.06: 2012	0.0001 mg/L to 1 mg/L
	Monocrotophos		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Phorate		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Lindane		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	β-HCH		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Paraxon methyl		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Malaxon		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Methyl parathion		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Dieldrin		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	47 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Alachlor		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Malathion		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Aldrin		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Butachlor		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	4,4-DDE		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Endrin		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	2,4-DDD		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	4,4-DDD		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Ethion		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Phorate sulfone		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Deltamethrin		TP/C/2.29 Issue no. 01; 3/6/2014	0.0001 mg/L to 1 mg/L
	Anthracence		TP/C/2.29 Issue no. 01; 3/6/2014	0.001 µg/L to 20.0 µg/L
	Benzo(a)pyrene		TP/C/2.29 Issue no. 01; 3/6/2014	0.001 µg/L to 20.0 µg/L
	Polychlorinated biphenyls (PCBs)			
	2-Chlorobiphenyl		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6431: 2012	0.1 µg/L to 100 µg/L
	2,2',3,3',4,4', 6- Heptachlorobiphenyl		TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6431: 2012	0.1 µg/L to 100 µg/L

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	48 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		2,2',3,3',4,5',6,6'-Octachlorobiphenyl	TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6431: 2012	0.1 µg/L to 100 µg/L
		2,2',3',4,6-Pentachlorobiphenyl	TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6431: 2012	0.1 µg/L to 100 µg/L
		2,2',4,4'-Tetrachlorobiphenyl	TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6431: 2012	0.1 µg/L to 100 µg/L
		2,2',4,4',5,6'-Hexachlorobiphenyle	TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6431: 2012	0.1 µg/L to 100 µg/L
		2,3-Dichlorobiphenyle	TP/C/2.29 Issue no. 01; 3/6/2014 / APHA (22 nd Edition) 6431: 2012	0.1 µg/L to 100 µg/L
		Trihalomethanes		
		Bromoform	APHA (22 nd Edition) 6232: 2012	0.5 µg/L to 50 µg/L
		Dibromochloromethane	APHA (22 nd Edition) 6232: 2012	0.5 µg/L to 50 µg/L
		Bromodichloromethane	APHA (22 nd Edition) 6232: 2012	0.5 µg/L to 50 µg/L
		Chloroform	APHA (22 nd Edition) 6232: 2012	0.5 µg/L to 50 µg/L
III. BUILDING MATERIALS				
1.	(Cement)	Loss on ignition	IS 4032: 1985 (RA 2009)	0.5 % to 10 %
	OPC, PPC, PSC,	Silica (SiO ₂)	IS 4032: 1985 (RA 2009)	1.0 % to 40 %
	White Cement	Alumina (Al ₂ O ₃)	IS 4032: 1985 (RA 2009)	2.0 % to 20 %
		Ferric oxide (Fe ₂ O ₃)	IS 4032: 1985 (RA 2009)	0.5 % to 10 %
		Calcium oxide (CaO)	IS 4032: 1985 (RA 2009)	35 % to 70 %

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	49 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Magnesia (MgO)	IS 4032: 1985 (RA 2009)	0.1 % to 10 %
		Sulphuric anhydride (SO ₃)	IS 4032: 1985 (RA 2009)	0.5 % to 7 %
		Insoluble residue	IS 4032: 1985 (RA 2009)	0.1 % to 35 %
		Sodium oxide (Na ₂ O)	IS 4032: 1985 (RA 2009)	0.05 % to 2 %
		Potassium oxide (K ₂ O)	IS 4032: 1985 (RA 2009)	0.05 % to 2 %
		Free lime (CaO)	IS 4032: 1985 (RA 2009)	0.1 % to 10 %
		Chloride (Cl)	IS 4032: 1985 (RA 2009)	0.005 % to 2 %
2.	Fly Ash	Moisture content	IS 2720 (Part 2): 1973 (RA 2005)	0.1 % to 5 %
		Loss on ignition	IS 1727: 1967 (RA 2008)	0.5 % to 3 %
		Silica (SiO ₂)	IS 1727: 1967 (RA 2008)	15 % to 80 %
		Alumina (Al ₂ O ₃)	IS 1727: 1967 (RA 2008)	1 % to 40 %
		Ferric oxide (Fe ₂ O ₃)	IS 1727: 1967 (RA 2008)	0.2 % to 10 %
		Calcium oxide (CaO)	IS 1727: 1967 (RA 2008)	0.2 % to 60 %
		Magnesia (MgO)	IS 1727: 1967 (RA 2008)	0.1 % to 10 %
		Sulphuric anhydride (SO ₃)	IS 1727: 1967 (RA 2008)	0.1 % to 10 %
		Available alkali as Equivalent sodium oxide (Na ₂ O)	IS 3812 (Part 2): 2013	0.0005 % to 3 %
		Total chloride (Cl)	IS 4032: 1985 (RA 2009)	0.005 % to 2 %

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	50 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Soils	pH	IS 2720 (Part 26): 1987 (RA 2007)	2 to 12
		Sulphates (as SO ₄ , Na ₂ SO ₄)	IS 2720 (Part 27): 1977 (RA 2005)	0.005 % to 3 %
		Chloride (Cl)	IS 6925: 1973 (RA 2008)	0.005 % to 3 %
		Total soluble solids	IS 2720 (Part 21): 1977 (RA 2005)	0.1 % to 5 %
		Nitrogen	IS 14684: 1999 (RA 2006)	0.001 % to 5.0 %
		Total phosphorus	TP/C/4.5 Issue no. 01, 7/2/2008	0.001 % to 5.0 %
		Potassium(K)	TP/C/4.6 Issue no. 01, 7/2/2008	0.001 % to 5.0 %
		Sodium (Na)	TP/C/4.6 Issue no. 01, 7/2/2008	0.001 % to 5.0 %
		Calcium (Ca)	TP/C/4.13 Issue no. 01, 7/7/2013	2 mg/kg to 5000 mg/kg
		Magnesium (Mg)	TP/C/4.13 Issue no. 01, 7/7/2013	1.2 mg/kg to 5000 mg/kg
		Iron (Fe)	TP/C/4.14 Issue no. 01, 7/7/2013	0.1 mg/kg to 1000 mg/kg
		Zinc (Zn)	TP/C/4.14 Issue no. 01, 7/7/2013	0.1 mg/kg to 1000 mg/kg
		Manganese (Mn)	TP/C/4.14 Issue no. 01, 7/7/2013	0.1 mg/kg to 1000 mg/kg
		Copper (Cu)	TP/C/4.14 Issue no. 01, 7/7/2013	0.1 mg/kg to 1000 mg/kg
		Boron (B)	TP/C/4.14 Issue no. 01, 7/7/2013	0.1 mg/kg to 100 mg/kg

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	51 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	Sand / Aggregate	Molybdenum	TP/C/4.14 Issue no. 01, 7/7/2013	0.1 mg/kg to 10 mg/kg
		Electrical conductivity	TP/C/4.12 Issue no. 01, 7/7/2013	0.01 μ S/cm to 5000 μ S/cm
		Organic carbon	TP/C/4.10 Issue no. 01, 7/7/2013	0.001 % to 5.0 %
		Sulphur (S)	TP/C/4.11 Issue no. 01, 7/7/2013	0.001 ppm to 100 ppm
		pH	IS 2720 (Part 26): 1987 (RA 2007)	2 to 12
		Sulphates (as SO ₄ , Na ₂ SO ₄)	IS 2720 (Part 27): 1977 (RA 2005)	0.005 % to 3 %
		Chloride	IS 6925: 1973 (RA 2008)	0.0002 % to 1 %; 1 % to 2.5 %; 2.5 % to 5 %
		Total soluble solids	IS 2720 (Part 21): 1977 (RA 2005)	0.1 % to 5 %
		Alkali aggregate reactivity (Determination of potential reactivity of aggregates)	IS 2386 (Part 7): 1963 (RA 2007)	
		i) Reduction in alkalinity ii) Silica dissolved		1 mM/L to 500 mM/L 1 mM/L to 500 mM/L
5.	Lime Stone, dolomite and allied materials	Organic impurities	IS 2386 (Part 2): 1963 (RA 2007)	Qualitative
		Silica	IS 1760 (Part 2): 1991 (RA 2001)	1 % to 80 %
		Alumina	IS 1760 (Part 3): 1992 (RA 2001)	0.5 % to 20 %
		Iron oxide	IS 1760 (Part 3): 1992 (RA 2001)	0.5 % to 20 %
		Calcium oxide	IS 1760 (Part 3): 1992 (RA 2001)	0.5 % to 60 %

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	52 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Magnesium oxide	IS 1760 (Part 3) : 1992 (RA 2001)	0.1 % to 25 %
		Sodium oxide	IS 4032: 1985 (RA 2009)	0.0005 % to 2 %
		Potassium oxide	IS 4032: 1985 (RA 2009)	0.001 % to 2 %
		Sulphuric anhydride	IS 1727: 1967 (RA 2008)	0.1 % to 10 %
		Manganese oxide	IS 12423: 1988 (RA 2005)	0.1 % to 15 %
		Phosphorus pentaoxide	IS 12423: 1988 (RA 2005)	0.1 % to 20 %
		Titanium oxide	IS 12423: 1988 (RA 2005)	0.1 % to 20 %
		Loss on ignition	IS 1760 (Part 1): 1991 (RA 2001)	0.5 % to 40 %
6.	Bentonite	pH	IS 6186: 1986 (RA 2003)	8 to 11
		Gel formation	IS 6186: 1986 (RA 2003)	Qualitative
7.	Wood / Plywood	pH	IS 1734 (Part 8): 1983 (RA 2003)	6 to 9
		Acidity and alkalinity resistance	IS 1734 (Part 20): 1983 (RA 2008)	Qualitative
8.	Ceramics	Acid resistance	IS 651: 2007	0.1 % to 20 %
		Alkali resistance	IS 651: 2007	Qualitative
9.	Gypsum and Its Products	Gypsum Building Plaster (Excluding Premixed Lightweight Plaster)		
		SO ₃	IS 1288: 1982 (RA 2006)	5 % to 65 %
		CaO	IS 1288: 1982 (RA 2006)	5 % to 65 %

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	53 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Soluble magnesium salts (MgO)	IS 1288: 1982 (RA 2006)	0.1 % to 20 %
		Soluble sodium salts (Na ₂ O)	IS 4032: 1985 (RA 2009)	0.01 % to 20 %
		Loss of ignition	IS 2547 (Part 1): 1976 (RA 2007)	0.1 % to 50 %
		Free lime	IS 2547 (Part 1): 1976 (RA 2007)	0.5 % to 50 %
		Gypsum Building Plaster (Premixed Lightweight Plaster)		
		Sum of soluble sodium and magnesium salt components, expressed as percentages of Sodium oxide (Na ₂ O) and Magnesium oxide (MgO)	IS 2547 (Part 2): 1976 (RA 2007)/ IS 1760 (Part 3): 1992 (RA 2001)	0.02 % to 50 %
		Free lime content	IS 2547 (Part 2): 1976 (RA 2007)	0.5 % to 50 %
10.	Water proofing compounds	Chloride ion content	IS 6925: 1973 (RA 2008)	0.001 % to 1 %
11.	Admixture	Dry material content	IS 9103: 1999 (RA 2004)	5 % to 50 %
		Ash content	IS 9103: 1999 (RA 2004)	2 % to 35 %
		Relative density	IS 9103: 1999 (RA 2004)	0.5 to 1.5
		Chloride ion content	IS 6925: 1973 (RA 2008)	0.001 % to 1 %
		pH	IS 9103: 1999 (RA 2004)	5 to 9
12.	Unplasticized PVC Pipe	Sulphated ash content	IS 4985: 2000	5 % to 12 %

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	54 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
IV. ORES & MINERALS				
1.	Iron Ore	Moisture	IS 1493 (Part 1): 1981 (RA 2001)	0.01 % to 10 %
		Silica	IS 1493 (Part 1): 1981 (RA 2001)	2 % to 10 %
		Iron	IS 1493 (Part 1): 1981 (RA 2001)	50 % to 70 %
		Phosphorous	IS 1493 (Part 1): 1981 (RA 2001)	0.001 % to 1 %
		Sulphur	IS 1493 (Part 1): 1981 (RA 2001)	0.01 % to 5 %
		Titanium	IS 1493 (Part 3): 1987 (RA 2001)	0.01 % to 1 %
		Chromium	IS 1493 (Part 3): 1987 (RA 2001)	0.01 % to 1 %
		Calcium	IS 1493 (Part 3): 1987 (RA 2001)	0.01 % to 5 %
		Magnesium	IS 1493 (Part 3): 1987 (RA 2001)	0.01 % to 2.5 %
		Copper	IS 1493 (Part 5): 1990 (RA 2001)	0.0001 % to 1 %
		Lead	IS 1493 (Part 7): 1993 (RA 2001)	0.0005 % to 1 %
		Zinc	IS 1493 (Part 7): 1993 (RA 2001)	0.001 % to 2 %
		Sodium	IS 1493 (Part 6): 1990 (RA 2001)	0.001 % to 1 %
		Potassium	IS 1493 (Part 6): 1990 (RA 2001)	0.001 % to 1 %
		Aluminium	IS 1493 (Part 1): 1981 (RA 2001)	0.01 % to 2 %
		Loss on ignition	IS 4032: 1985 (RA 2009)	0.01 % to 10 %

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	55 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
V.	METALS AND ALLOYS			
1.	(Steel) Mild Steel, Structural Steel	Carbon (C)	IS 228 (Part 1):1987 (RA 1997)	0.05 % to 2.5 %
		Sulphur (S)	IS 228 (Part 9): 1989 (RA 2004)	0.01 % to 0.25 %
		Phosphorus (P)	IS 228 (Part 3): 1987 (RA 2002)	0.01 % to 1.0 %
		Silicon (Si)	IS 228 (Part 8): 1989 (RA 2004)	0.05 % to 5.01 %
		Manganese (Mn)	IS 228 (Part 12): 2001 (RA 2004)	0.05 % to 5.0 %
	(Steel) High Strength deformed steel bars and wires	Carbon (C)	IS 228 (Part 1): 1987 (RA 2002)	0.1 % to 1.5 %
		Sulphur (S)	IS 228 (Part 9): 1989 (RA 2004)	0.01 % to 0.25 %
		Phosphorus (P)	IS 228 (Part 3): 1987 (RA 2002)	0.01 % to 1.0 %
		Silicon (Si)	IS 228 (Part 8): 1989 (RA 2004)	0.05 % to 1.5 %
		Manganese (Mn)	IS 228 (Part 12): 2001 (RA 2004)	0.05 % to 5.0 %
VI	AIR, GASES AND ATMOSPHERE			
1.	Ambient Air Monitoring	Oxides of nitrogen (NO _x)	IS 5182 (Part 6): 2006	6 µg/m ³ to 750 µg/m ³
		Sulphur dioxide (SO ₂)	IS 5182 (Part 2): 2001	6 µg/m ³ to 750 µg/m ³
		PM10	IS 5182 (Part 23): 2006	10 µg/m ³ to 1000 µg/m ³
		PM 2.5	TP/C/ 9.7 Issue no. 01, 8/1/2010 / CPCB guidelines for the measurement of ambient air pollutants (Vol-1, May 2011)	10 µg/m ³ to 1000 µg/m ³

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	56 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Noise level measurement	IS 9989:1981 (RA 2001) / IS 9876: 1981 (RA 2001)	34 Leq dB to 134 Leq dB
		Ozone (O ₃)	IS 5182 (Part 9): 1974	10 µg/m ³ to 1000 µg/m ³
		Ammonia (as total ammonia-N)	APHA (22 nd Edition) 82: 1971	0.1 µg/m ³ to 1000 µg/m ³
		Lead (Pb)	CPCB guidelines for the measurement of ambient air pollutants (Vol-1, May 2011)	0.01 µg/m ³ to 1000 µg/m ³
		Arsenic (As)	CPCB guidelines for the measurement of ambient air pollutants (Vol-1, May 2011)	1 ng/m ³ to 1000 ng/m ³
		Nickel (Ni)	CPCB guidelines for the measurement of ambient air pollutants (Vol-1, May 2011)	5 ng/m ³ to 1000 ng/m ³
		Polynuclear aromatic hydrocarbons		
		Acenaphthene	TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
		Acenaphthylene	TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
		Anthracene	TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
		Benzo(a) anthracene	TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
		Benzo(b) fluoranthene	TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	57 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Benzo(k) fluoranthene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Benzo(g,h,i) perylene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Benzo(a) pyrene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Chrysenes		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Dibenzo(a, h) anthracene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Fluoranthene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Fluorene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Indeno (1,2,3-c,d) pyrene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Naphthalene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Phenanthrene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³
	Pyrene		TP/C/9.9 Issue no. 01; 19/3/2014	0.05 ng/ m ³ to 1000.0 ng/ m ³

Laboratory	CEG Test House and Research Centre Pvt. Ltd. B-11 (G) Malviya Industrial Area, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.10.2014
Certificate Number	T-1601	Valid Until	23.02.2016
Last Amended on	-	Page	58 of 58

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Stack Emission Monitoring	Particulate matter	IS 11255 (Part 1): 1985 (RA 2003)	10 mg/Nm ³ to 100 mg/Nm ³
		Sulphur dioxide	IS 11255 (Part 2): 1985 (RA 2003)	1 mg/Nm ³ to 100 mg/Nm ³
		CO ₂	IS 13270: 1992 (RA 2005)	0.2 % to 20 %
		CO	IS 13270: 1992 (RA 2005)	0.2 % to 10 %
		O ₂	IS 13270: 1992 (RA 2005)	0.2 % to 25 %
		Oxides of nitrogen	IS 11255 (Part 7): 2005	2 mg/Nm ³ to 400 mg/Nm ³

-X-X-X-X-X-X-X-X-X-X-X-X-