

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>1 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
<b>A.</b>	<b>TEXTILE</b>	<b>Colour fastness to Washing</b>	ISO-105-C01 to C05 : 1989 C06 : 1994 ISO 105 C08 & C10 : 2006 AATCC-61 : 2007 JIS-L 0844 Method A & C :2005 BS EN ISO 20105-CO1 to CO5:1993 BS EN ISO 105 – CO6 : 1997 AS 2001.4.15 Part A to Q : 2006 CAN/CGSB-4.2 No.19.1-2004 DIN EN ISO 20105-C01 to C05:1993 DIN EN ISO 105-C06 :1997	R : 1 to 5 Grade
		<b>Crocking</b>	ISO-x12 : 2001 AATCC-8 : 2007 AATCC : 165 : 1999 JIS-L-0849 : 2004 BS EN ISO105-x12 : 2002 AS 2001.4.3 : 1995 CAN/CGSB-4.2 No.22.M90-2004 DIN EN ISO 105-x12 : 2002	R : 1 to 5 Grade
		<b>Water</b>	ISO-105-EO1 : 1994 AATCC-107 : 2007 JIS-L-0846 : 2004 BS EN ISO 105-EO1 : 1996 AS 2001.4.E01: 2001 CAN/CGSB-4.2 No.20.M89 DIN EN ISO 105-EO1 : 1996	R : 1 to 5 Grade
		<b>Perspiration</b>	ISO-105-EO4 : 1994 AATCC-15 : 2007 JIS-L-0848 : 2004 BS EN ISO 105-E04 : 1996 AS 2001.4.E04 : 2005 CAN/CGSB-4.2 No.23.M90 DIN EN ISO 105-E04 : 1996	R : 1 to 5 Grade

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>2 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Bleaching: Peroxide	ISO-105-NO2 : 1993 AATCC-101: 2004	R : 1 to 5 Grade
		Chlorine Bleach	ISO-105-NO1 : 1993 AS 2001.4.11:1982	R : 1 to 5 Grade
		Non Chlorine Bleach	AATCC-172 : 2007	R : 1 to 5 Grade
		Phenolic yellowing of textiles	TESCO METHOD – APPENDIX-D	R : 1 to 5 Grade
		Motif / Print durability	TESCO METHOD – APPENDIX-C	R : 1 to 5 Grade
		Dry Cleaning	ISO-105-DO1 : 1993 AATCC-132 : 2004 JIS-L-0860 Method A & B: 1996 BS EN ISO 105 DO1:1995 AS 2001.4.16:1981 CAN/CGSB 4.2 NO.29.1M89-1997 DIN EN ISO 105 DO1 : 1995	R : 1 to 5 Grade
		Chlorinated Water	ISO-105-EO3 : 1994 JIS-L 0884 : 1996 BS EN ISO 105-EO3 : 1997 AS 2001.4.5 : 1998 CAN/CGSB-4.2 No.52.2-M 98 DIN EN ISO 105 EO3:1996	R : 1 to 5 Grade
		Light - MBTL Fading Lamp	In-house (SGS/IN/CTS LAB/013) AS 2001.4.21:2006 (Source MBTL)	R : 1 to 5 Grade
		Light - Xenon Arc Lamp	ISO 105 BO2 : 1994 AATCC-16 : 2004 JIS-L 0843 : 1988(92) BS EN ISO 105-BO2 : 1999 CAN/CGSB-4.2 No.18.3.97 DIN EN ISO 105 BO2 :2002	R : 1 to 5 Grade



<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>4 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Dye Identification	SP-15 : 1988	Qualitative
		Formaldehyde Content	JIS-L-1041 : 2000 SFS 4996 : 2000 BS EN ISO – 14184- 1:1999 BS EN ISO – 14184- 2:1998 AATCC 112 : 2003	10 mg/kg
		PCP	LMBG 82.02 PART 8 : 2001 § 64 LFGB , B 82.02.8 CEN/TS 14494:2003 LMBG 82.02 PART 8 (KOH EXTN.) DIN 53313 DIN EN ISO 17070:2007	0.05 mg/kg
		<b>PCB</b>	USEPA 8082 : 1994	100 ppb
		2,4,4'-Trichlorobiphenyl 2,2',5,5'- Tetrachlorobiphenyl 2,2',4,5,5'- Pentachlorobiphenyl 2,2',4,4',5,5'- Hexachlorobiphenyl 2,2',3,4',4,5'- Hexachlorobiphenyl 2,2',3,4,4',5,5'- Heptachlorobiphenyl		
		<b>Forbidden Amines</b>	LMBG 82.02 : 1998 Part 02 & 04	5 mg/kg
		Benzidine	§ 64 LFGB , B 82.02.2	
		3,3'-Dimethoxybenzidine	§ 64 LFGB , B 82.02.4	
		3,3'-Dimethylbenzidine	§ 64 LFGB , B 82.02.9	
		P-Chloraniline	BS EN 14362 -1 : 2002	
		O-Toluidine	BS EN 14362 -2 : 2002	

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>5 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Toluylene 2,4 Diamine 4-Aminobipheny 4-Chlor-O-Toluidine 5 Methyl O Anisidine 4,4' Methylene dianiline O-Anisidine 2,4-Dimethyl Aniline 4methoxym-phenylenediamine 4,4methylene-Bis(2chloranilin) 4,4'-Oxydianiline 2,4,5-Trimethylaniline *O-Aminoazotoluene 4-Amino Azo Benzene 2,6-Dimethyl Aniline 3,3'-Dichlorobenzidine 2-Naphthylamine 4,4' Methylene Di O Toluidine 4,4'-Thiodianiline 5-Nitro-O-Toluidine	LMBG 82.02 : 1998 Part 02 & 04 § 64 LFGB , B 82.02.2 § 64 LFGB , B 82.02.4 § 64 LFGB , B 82.02.9 BS EN 14362 -1 : 2002 BS EN 14362 -2 : 2002	5 mg/kg
		<b>Pesticides Residue</b>	In house method with reference to EPA 8081/ 8141 By GC-MS / LC-MS	0.1 mg/kg
		Diazinon, Parathion-methyl, Fenitrothion, Malathion, Parathion, Chlorfenvinphos, Azinphos methyl, HCB, Pentachloroanisole, Chlorthalonil, Captafol, Cyfluthrin, Permethrin, Cypermethrin, Deltamethrin, Fenvalerate, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Heptachloro,		

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>6 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Aldrin, Heptachlorepoide, Chlordane, Endosulfan-Alpha, Endosulfan-Beta , DDE, DDD, DDT, Dieldrin, Endrin, Methoxychlor, Metamidophos, Phosdrin/ Mevinphos, Carbaryl, Chlordemiform, Monocrotophos, Dichlofluanid, Tolyfluanid, Quinalphos, Bromophos-ethyl, Cyhalothrin, Profenaphos, DEF, Tetramethrin, Azinphosethyl, Coumaphos, Toxaphene, Dicrotophos, Trifluralin, Dimethoate, Propethamphos, Mirex, Esfenvalerate, 2,4-D, 2,4, 5-T, Dichlorprop, Dinoseb, MCPA, MCPB, MCPP	In house method with reference to EPA 8081/ 8141 By GC-MS / LC-MS	0.1 mg/kg
		2,3,4,6 – Tetrachlorophenol 2,3,4,5 – Tetrachlorophenol 2,3,5,6 – Tetrachlorophenol	LMBG 82.02 PART 8 : 2001 § 64 LFGB , B 82.02.8 CEN/TS 14494:2003 LMBG 82.02 PART 8 (KOH Extn.) DIN 53313 DIN EN ISO 17070:2007	0.05 mg/kg
		2,4,6 – Trichlorophenol 2,3,4 – Trichlorophenol 2,3,5 – Trichlorophenol 2,3,6 – Trichlorophenol 2,4,5 – Trichlorophenol 3,4,5 – Trichlorophenol	LMBG 82.02 PART 8 : 2001 § 64 LFGB , B 82.02.8 CEN/TS 14494:2003 LMBG 82.02 PART 8 (KOH Extn.) DIN 53313 DIN EN ISO 17070:2007	0.05 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>7 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Orthophenyl Phenol	LMBG 82.02 PART 8 : 2001 § 64 LFGB , B 82.02.8 LMBG 82.02 PART 8 (KOH Extn.) DIN 53313 DIN EN ISO 17070:2007	0.5 mg/kg
		<b>Organo Tin Compounds</b> TBT DBT MBT TeBT MOT DOT TPT TCyHT	DIN 38407 : 1999 BS ISO 17353:2004	0.025 mg/kg
		<b>Allergenic Disperse Dyes</b> Disperse Blue 3 Disperse Blue 106 Disperse Blue 124 Disperse Blue 35 Disperse Blue 1 Disperse Blue 7 Disperse Blue 26 Disperse Blue 102 Disperse Brown 1 Disperse Red 1 Disperse Red 11 Disperse Red 17 Disperse Orange 1 Disperse Orange 37/76 Disperse Orange 3 Disperse Yellow 9 Disperse Yellow 1 Disperse Yellow 39 Disperse Yellow 49 Disperse Yellow 3 Disperse Yellow 23 Disperse Orange 149	DIN NMP 512 Draft 6 : 2002 DIN 54231	1 mg/L

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>8 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		<b>Chlorinated Organic Carrier</b>		
	Dichlorobenzenes Trichlorobenzenes Tetrachlorobenzenes Peantachlorobenzenes Hexachlorobenzene Chlorotoluenes Dichlorotoluenes Trichlorotoluenes Tetrachlorotoluenes Pentachlorotoluene		Solvent Extraction/GC-MS Determination	0.1 mg/kg
		<b>Phthalates</b>		
	Dibutyl phthalate Benzyl Butyl phthalate Bis 2 ethyl hexyl phthalate Di octyl phthalate Diiso nonyl phthalate Diiso decyl phthalate		EPA 8061 ASTM D 3421-75 Solvent Extraction/GC-MS Analysis EN 14372: 2004	20 mg/kg 20 mg/kg 20 mg/kg 20 mg/kg 50 mg/kg 50 mg/kg
		<b>Extractable Heavy metals</b>		
	Lead Cadmium Chromium Cobalt Antimony Arsenic Mercury Nickel Copper		ISO 105 E04 – By ICPMS	0.05 mg/kg 0.05 mg/kg 0.50 mg/kg 0.50 mg/kg 5.00 mg/kg 0.20 mg/kg 0.01 mg/kg 0.50 mg/kg 1 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>9 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
	PVC		Beilstein method FTIR	Present/Absent
	<b>CARCINOGENIC DYES</b>			
	Disperse Blue 1 Disperse Yellow 3 Basic Violet 14 Direct Blue 6 Basic Red 9 Acid Red 26 Direct Red 28 Disperse Orange 11 Direct Black 38		DIN NMP 512 Draft 6 : 2002 DIN 54231	1 mg/L
	<b>Polycyclic Aromatic Hydrocarbons</b>			
	(16 compounds) Dibenz (a,h) anthracene Benzo (g,h,i) perylene Indeno (1,2,3-cd) pyrene Benzo (a) pyrene Benzo (k) flouranthene Benzo (b) flouranthene Chrysene Benzo (a) Anthracene Pyrene Flouranthene Anthracene Phenanthrene Flourene Acenaphthene Acenaphthylene Naphthtalene		EPA 8270 Solvent Extraction/Analysis By GC-MS BS ISO 18287	0.1 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>10 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Vinyl Chloride Monomer	ASTM D 3749-95 By GC-MS Headspace	1 ppm
		<b>Volatile Organic Compounds</b>		
		Carbon tetrachloride Benzene Toluene 1,1',2,2-tetra chloroethane o-Xylene m,p-Xylene pentachloroethane	By GC-MS Headspace	1 ppm
		Perfluorooctanoic Acid (PFOA) Perfluorooctane Sulphonate (PFOS)	Solvent Extraction/Analysis By LC-MS	0.1 mg/kg
		<b>Alkyl Phenols and its Ethoxylates</b>		
		4-NPEO 6-NPEO 8-NPEO 12-NPEO 15-NPEO 20-NPEO 8-OPEO 12-OPEO 4-OPEO 4-NP 4-OP	Solvent Extraction/Analysis By LC-MS	10 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>11 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		<b>Flame retardants</b>		
		TRIS TEPA PBB Penta BDE Octa BDE	Solvent extraction by GC-MS and LC-MS	5 mg/kg
<b>B.</b>	<b>LEATHER</b>	<b>Colourfastness to</b>		
		i) Light - MBTL Fading Lamp	In-house (SGS/IN/CTS LAB/013)	R : 1 to 5 Grade.
		ii) Light – Xenon Arc Lamp	SLF 402 :1996 IUF 402 : 1996 DIN 54004 : 1983	R : 1 to 5 Grade
		iii) Dry Cleaning	SLF 434 : 1997 IUF 434 : 1997 ISO 11643 : 1993 BS EN ISO 11643 : 1998	R : 1 to 5 Grade
		iv) Rubbing (Crock meter))	AATCC-8 : 2007 ASTM D 5053:2003 REF:SATRA TM 167:2001	R : 1 to 5 Grade
		v) Veslic Rub Fastness	SLF 450:1996 IUF-450 : 1996 ISO 11640 : 1993 BS 1006 UK LG:1990 REF:SATRA PM 173:1995 BSEN ISO 17700: 2004 (Method A)	R : 1 to 5 Grade
		vi) Rubbing (Circular)	SLF 5: 1996 BS 1006 UK LC: 1990 REF : SATRA PM 8: 1992 BSEN ISO 17700: 2004 (Method B)	R : 1 to 5 Grade

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>12 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		vii) Perspiration	SLF 426:1996 IUF 426 : 1996 ISO 11641 : 1993 NF EN 12801 :2000	R : 1 to 5 Grade
		viii) Water	SLF 421:1996 IUF 421 : 1996 ISO 11642 : 1993	R : 1 to 5 Grade
		ix) Mild Washing	SLF 423: 1996 IUF 423: 1996 ISO 15703: 1998	R : 1 to 5 Grade
		x) Machine Washing	SLF 435: 1996 IUF 435: 1996 ISO 15702: 1998	R : 1 to 5 Grade
		xi) Water Spotting	SLF 420: 1996 IUF 420: 1996 ISO 15700: 1998 REF: SATRA PM 185: 1995	R : 1 to 5 Grade
		xii) PVC Migration	SLF 442: 1996 IUF 442: 1996 ISO 15701: 1998	R : 1 to 5 Grade
		i)Chromium VI	DIN 53314 : 1996 IUC 18 : 1997	0.5 mg/kg
		ii) Chromium VI after aging	EN 420:2003 ISO 17075: 2007 CEN/TS 14495:2003 CEN ISO/TS 17234:2003	0.5 mg/kg
		pH Value	IUC 11: 1996 BS 1309:9 DIN 53312 ISO: 4045 : 2008	R : 2 to 12

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>13 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Formaldehyde Content	DIN 53315 E (By UV & HPLC) ISO TS 17226: 2003 (By UV & HPLC)	10 mg/kg
		PCP	LMBG 82.02 PART 8 : 2001 § 64 LFGB , B 82.02.8 CEN/TS 14494:2003 DIN 53313 DIN EN ISO 17070:2007	0.05 mg/kg
		<b>Forbidden Amines</b> Benzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethylbenzidine P-Chloraniline O-Toluidine Toluylene 2,4 Diamine 4-Aminobipheny 4-Chlor-O-Toluidine 5 Methyl O Anisidine 4,4' Methylenedianiline O-Anisidine 2,4-Dimethyl Aniline 4methoxymphenylenediamine 4,4methylen-Bis(2chloranilin) 4,4'-Oxydianiline 2,4,5-Trimethylaniline *O-Aminoazotoluene 4-Amino Azo Benzene 2,6-Dimethyl Aniline 3,3'-Dichlorobenzidine 2-Naphthylamine 4,4' Methylene Di O Toluidine 4,4'-Thiodianiline 5-Nitro-O-Toluidine	LMBG 82.02 PART 3 § 64 LFGB , B 82.02.3 § 64 LFGB , B 82.02.9 ISO TS 17234 ; 2003	5 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>14 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		<b>PCB</b> 2,4,4'-Trichlorobiphenyl 2,2',5,5'-Tetrachlorobiphenyl 2,2',4,5,5'- Pentachlorobiphenyl 2,2',4,4',5,5'- Hexachlorobiphenyl 2,2',3,4',4,5'- Hexachlorobiphenyl 2,2',3,4,4',5,5'- Heptachlorobiphenyl	USEPA 8082 : 1994	100 ppb
		2,3,4,6 – Tetrachlorophenol 2,3,4,5 – Tetrachlorophenol 2,3,5,6 – Tetrachlorophenol	LMBG 82.02 PART 8 : 2001 § 64 LFGB , B 82.02.8 CEN/TS 14494:2003 DIN 53313 DIN EN ISO 17070:2007	0.05 mg/kg
		2,4,6 – Trichlorophenol 2,3,4 – Trichlorophenol 2,3,5 – Trichlorophenol 2,3,6 – Trichlorophenol 2,4,5 – Trichlorophenol 3,4,5 – Trichlorophenol	LMBG 82.02 PART 8 : 2001 § 64 LFGB , B 82.02.8 CEN/TS 14494:2003 DIN 53313 DIN EN ISO 17070:2007	0.05 mg/kg
		Orthophenyl Phenol	LMBG 82.02 PART 8 : 2001 § 64 LFGB , B 82.02.8 CEN/TS 14494:2003 DIN 53313 DIN EN ISO 17070:2007	0.5 mg/kg
		<b>Pesticides Residue</b> Diazinon, Parathion-methyl, Fenitrothion, Malathion, Parathion, Chlorfenvinphos, Azinphos methyl, HCB, Pentachloroanisole, Chlorthalonil, Captafol,	In house method with reference to EPA 8081/ 8141 By GC-MS / LC-MS	0.1 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>15 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Cyfluthrin, Permethrin, Cypermethrin, Deltamethrin, Fenvalerate, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Heptachloro, Aldrin, Heptachlorepoxyde, Chlordane, Endosulfan-Alpha, Endosulfan- Beta, DDE, DDD, DDT, Dieldrin, Endrin, Methoxychlor, Metamidophos, Phosdrin/Mevinphos, Carbaryl, Chlordemiform, Monocrotophos, Dichlofluanid, Tolyfluanid, Quinalphos, Bromophos-ethyl, Cyhalothrin, Profenaphos, DEF, Tetramethrin, Azinphosethyl, Coumaphos, Toxaphene, Dicrotophos, Trifluralin, Dimethoate, Propethamphos, Mirex, Esfenvalerate, 2,4-D, 2,4,5-T, Dichlorprop, Dinoseb, MCPA, MCPB, MCPP	In house method with reference to EPA 8081/ 8141 By GC-MS / LC-MS	0.1 mg/kg
		<b>Organo Tin Compounds</b>		
		TBT DBT MBT TeBT MOT DOT TPT TCyHT	DIN 38407 : 1999 BS EN ISO 17353:2004	0.025 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>16 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		<b>Disperse Dyes</b>		
	Disperse Blue 3		DIN NMP 512	1 mg/L
	Disperse Blue 106		Draft 6 : 2002	
	Disperse Blue 124		DIN 54231	
	Disperse Blue 35			
	Disperse Blue 1			
	Disperse Blue 7			
	Disperse Blue 26			
	Disperse Blue 102			
	Disperse Brown 1			
	Disperse Red 1			
	Disperse Red 11			
	Disperse Red 17			
	Disperse Orange 1			
	Disperse Orange 37/76			
	Disperse Orange 3			
	Disperse Yellow 9			
	Disperse Yellow 1			
	Disperse Yellow 39			
	Disperse Yellow 49			
	Disperse Yellow 3			
	Disperse Yellow 23			
	Disperse Orange 149			
		<b>Phthalates</b>		
	Dibutyl phthalate		EPA 8061	20 mg/kg
	Benzyl Butyl phthalate		ASTM D 3421-75	20 mg/kg
	Bis 2 ethyl hexyl phthalate		Solvent Extraction/GC-MS	20 mg/kg
	Di octyl phthalate		Analysis	20 mg/kg
	Diiso nonyl phthalate		EN 14372: 2004	50 mg/kg
	Diiso decyl phthalate			50 mg/kg
	Leather identification		FTIR	Observation

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>17 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		<b>Short Chain Chlorinated Paraffin's (C10-C13)</b>		
		SCCP 51.5 % SCCP 55.5 % SCCP 63.0 %	Solvent Extraction/Analysis By GC-ECD/MS	100 mg/kg
		<b>Extractable Heavy metals</b>		
		Lead Cadmium Chromium Cobalt Antimony Arsenic Mercury Nickel Copper	ISO 105 E04 – By ICPMS	0.05 mg/kg 0.05 mg/kg 0.50 mg/kg 0.50 mg/kg 5.00 mg/kg 0.20 mg/kg 0.02 mg/kg 0.50 mg/kg 1 mg/kg
		<b>Carcinogenic Dyes</b>		
		Disperse Blue 1 Disperse Yellow 3 Basic Violet 14 Direct Blue 6 Basic Red 9 Acid Red 26 Direct Red 28 Disperse Orange 11 Direct Black 38	DIN NMP 512 Draft 6 : 2002 DIN 54231	1 mg/L

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>18 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		<b>Polycyclic Aromatic Hydrocarbons (16 compounds)</b>		
	Dibenz (a,h) anthracene Benzo (g,h,i) perylene Indeno (1,2,3-cd) pyrene Benzo (a) pyrene Benzo (k) flouranthene Benzo (b) flouranthene Chrysene Benzo (a) Anthracene Pyrene Flouranthene Anthracene Phenanthrene Flourene Acenaphthene Acenaphthylene Naphhtalene		EPA 8270 Solvent Extraction/Analysis By GC-MS BS EN ISO 18287	0.1 mg/kg
	Vinyl Chloride Monomer		ASTM D 3749-95 By GC-MS Headspace	1 ppm
	<b>Volatile Organic compounds</b>			
	Carbon tetrachloride Benzene Toluene 1,1',2,2-tetra chloroethane o-Xylene m,p-Xylene pentachloroethane		By GC-MS Headspace	1 ppm

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>19 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		<b>Alkyl Phenols and its Ethoxylates</b>		
		4-NPEO 6-NPEO 8-NPEO 12-NPEO 15-NPEO 20-NPEO 8-OPEO 12-OPEO 4-OPEO 4-NP 4-OP	Solvent Extraction/Analysis By LC-MS	10 mg/kg
		<b>Flame retardants</b>		
		TRIS TEPA PBB Penta BDE Octa BDE	Solvent extraction by GC-MS and LC-MS	5 mg/kg
<b>C.</b>	<b>Miscellaneous Products</b>			
<b>i)</b>	<b>Safety Toys (Migration of Certain elements)</b>	i) Lead ii) Cadmium iii) Chromium iv) Barium v) Antimony vi) Arsenic vii) Mercury viii) Selenium	EN 71 P 3 - 1995 EN 71 P 3 – 1995 EN 71 P 3 – 1995 EN 71 P 3 – 1995 EN 71 P 3 – 1995 EN 71 P 3 – 1995 EN 71 P 3 – 1995 EN 71 P 3 – 1995	2 mg/kg 2 mg/kg 1 mg/kg 5 mg/kg 5 mg/kg 1 mg/kg 5 mg/kg 5 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>20 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
ii)	<b>Release of Nickel From products (Metallic Parts of Garments, Leathers and Rubbers) Intended to come Into Direct and prolonged Contact with the skin</b>	Release of Nickel	EN 1811 – 1999	0.10mcg/cm <sup>2</sup> /week
iii)	<b>Simulation of Wear and corrosion for the detection of Nickel release from coated items</b>	Release of Nickel	EN 12472 – 1998/2005	0.10mcg/cm <sup>2</sup> /week
iv)	<b>Nickel spot test</b>	Nickel spot test	EN 12471-1998	Present/Absent
<b>D.</b>	<b>Plastic / Rubber</b>	Cadmium by wet decomposition method	EN 1122 – 2001	2 mg/kg
		<b>Total Heavy Metals</b>		
		Arsenic Cadmium, Lead Mercury	EPA 3052 Microwave assisted Acid digestion	2 mg/kg
		<b>Phthalates</b>		
		Dibutyl phthalate	EPA 8061	20 mg/kg
		Benzyl Butyl phthalate	ASTM D 3421-75	20 mg/kg
		Bis 2 ethyl hexyl phthalate	Solvent Extraction/GC-MS Analysis	20 mg/kg
		Di octyl phthalate	EN 14372: 2004	50 mg/kg
		Diiso nonyl phthalate		50 mg/kg
		Diiso decyl phthalate		

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>21 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		<b>Polycyclic Aromatic Hydrocarbons</b>		
		<b>(16 compounds)</b>	EPA 8270	0.1 mg/kg
		Dibenz (a,h) anthracene	Solvent Extraction/Analysis	
		Benzo (g,h,i) perylene	By GC-MS	
		Indeno (1,2,3-cd) pyrene	BS EN ISO 18287	
		Benzo (a) pyrene		
		Benzo (k) flouranthene		
		Benzo (b) flouranthene		
		Chrysene		
		Benzo (a) Anthracene		
		Pyrene		
		Flouranthene		
		Anthracene		
		Phenanthrene		
		Flourene		
		Acenaphthene		
		Acenaphthylene		
		Naphthtalene		
		Vinyl Chloride Monomer	ASTM D 3749-95 By GC-MS Headspace	1 ppm
		Perfluorooctanoic Acid (PFOA) Perfluorooctane Sulphonate (PFOS)	Solvent Extraction/ Analysis by LC-MS	0.1 mg/kg
<b>E.</b>	<b>Food &amp; Agricultural Products</b>			
<b>1.</b>	<b>Animal Feeds</b>	Moisture	IS 7874/1995(pt.I)	>1%
		Crude Fat	IS 7874/1995(pt.I)	>1%
		Crude Fibre	IS 7874/1995(pt.I)	>1%

Laboratory **SGS India Private Limited, Chennai**

Field **Chemical Testing**

Issue Date **15.05.2008**

Certificate Number **T-0118**

Valid Until **14.05.2010**

Last Amended on **-**

Page **22 of 76**

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Ash	IS 7874/1995(pt.I)	>1%
		Acid Insoluble Ash	IS 7874/1995(pt.I)	>1%
		Crude Protein	AOAC:18 <sup>th</sup> Edition 2006	>1%
2.	<b>Nuts &amp; nuts products</b>	Moisture	IS 4684/1995	>1%
		Crude fat	IS 4684/1995	>1%
		Crude fibre	IS 4684/1995	>1%
		Total Ash	IS 4684/1995	>1%
		Acid Insoluble ash	IS 4684/1995	>1%
		Protein	IS 4684/1995	>1%
		Acid value	IS 4684/1995	>1%
3.	<b>Oil, fats &amp; related products</b>	Moisture & Insoluble impurities	IS 548/1996	>1%
		Colour	IS 548/1996	>1%
		Refractive Index	IS 548/1996	>1%
		Specific gravity	IS 548/1996	>1%
		Saponification value	IS 548/1996	>1%
		Iodine value	IS 548/1996	>1%
		Acid value	IS 548/1996	>1%
		Unsaponifiable matter	IS 548/1996	>1%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>23 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Peroxide value	IS 548/1996	>1%
		Acetyl/Hydroxyl value	IS 548/1996	>1%
		Free fatty acid	IS 548/1996	>1%
		Adulteration	IS 548/1996	>1%
<b>4.</b>	<b>Starch &amp; Starchy Products</b>	Moisture	IS 4706/1995	>1%
		Cold water solubles	IS 4706/1995	>1%
		Ash	IS 4706/1995	>1%
		Acid Insoluble ash	IS 4706/1995	>1%
		Crude Fibre	IS 4706/1995	>1%
		Crude Protein	IS 4706/1995	>1%
		Crude fat	IS 4706/1995	>1%
		Free acidity	IS 4706/1995	>1%
		Alcoholic acidity	IS 4706/1995	>1%
		pH	IS 4706/1995	>1%
		Viscosity	IS 4706/1995	>1%
<b>5.</b>	<b>Honey &amp; honey products</b>	Specific gravity	IS 4941/1994	>1%
		Moisture	IS 4941/1994	>1%
		Total Reducing sugars	IS 4941/1994	>1%
		Sucrose	IS 4941/1994	>1%
		Fructose-Glucose Ratio	IS 4941/1994	>1%

**Laboratory**                    **SGS India Private Limited, Chennai**

**Field**                            **Chemical Testing**

**Issue Date**    **15.05.2008**

**Certificate Number**    **T-0118**

**Valid Until**    **14.05.2010**

**Last Amended on**    **-**

**Page**                    **24 of 76**

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Ash	IS 4941/1994	>1%
		Acidity	IS 4941/1994	>1%
		Fiehe's Test	IS 4941/1994	>1%
		Optical Density	IS 4941/1994	>1%
<b>6.</b>	<b>Tea &amp; tea products</b>	Total ash	IS 3633/1995	>1%
		Water soluble ash	IS 3633/1995	>1%
		Acid insoluble ash	IS 3633/1995	>1%
		Alkalinity of water soluble ash	IS 3633/1995	>1%
		Water soluble extract	IS 3633/1995	>1%
		Crude fibre	IS 3633/1995	>1%
<b>7.</b>	<b>Coffee, cocoa &amp; by products</b>	Moisture	IS 2791/1998	>1%
		Ash	IS 2791/1998	>1%
		Caffeine	IS 2791/1998	>1%
		Solubility	IS 2791/1998	>1%
<b>8.</b>	<b>Tobacco &amp; Tobacco by products</b>	Moisture	IS 9379/1999	>1%
		Total ash	IS 9379/1995	>1%
		Acid Insoluble ash	IS 5643/1995	>1%
		Nicotine	IS 5643/1995	>1%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>25 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Chlorides	IS 5643/1995	>1%
		Total Nitrogen	IS 5643/1995	>1%
<b>9.</b>	<b>Cereals, pulses &amp; by-products</b>	Refraction	IS 4333/1996/Part 1	>1%
<b>10.</b>	<b>Cereals, pulses &amp; by-products (Suji/Rava)</b>	Moisture	IS 1010/2000	>1%
		Total ash	IS 1010/2000	>1%
		Acid Insoluble ash	IS 1010/2000	>1%
		Gluten	IS 1010/2000	>1%
		Alcoholic acidity	IS 1010/2000	>1%
<b>11.</b>	<b>Cereals, pulses &amp; by-products (Maida/Wheat Flour)</b>	Moisture	IS 1009/1995	>1%
		Total ash	IS 1009/1995	>1%
		Acid Insoluble ash	IS 1009/1995	>1%
		Gluten	IS 1009/1995	>1%
		Alcoholic acidity	IS 1009/1995	>1%
<b>12.</b>	<b>Cereals, pulses &amp; by-products (Wheat Atta)</b>	Total ash	IS 1155/1994	>1%
		Acid Insoluble ash	IS 1155/1994	>1%
		Gluten	IS 1155/1994	>1%
		Alcoholic acidity	IS 1155/1994	>1%
		Protein	AOAC:18 <sup>th</sup> Edition 2006	>1%
		pH	AOAC:18 <sup>th</sup> Edition 2006	>1%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>26 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Finess	IS 1155/1994	>1%
		Acidity	IS 1155/1994	>1%
		Wet gluten	IS 8162/1998	>1%
		Potassium bromate	Qualitative	>1%
<b>13.</b>	<b>Spices &amp; condiments</b>	Capsaicin/ Scoville Heat Unit	ASTA 4 <sup>th</sup> Edition	>1%
<b>14.</b>	<b>Cereals, pulses and by-products (Pappad)</b>	Moisture	IS 2639/2002	>1%
		Total Ash	IS 2639/2002	>1%
		Acid Insoluble Ash	IS 2639/2002	>1%
		Alkalinity of Ash	IS 2639/2002	>1%
		pH of water extract	IS 2639/2002	>1%
		Fat	IS 2639/2002	>1%
		Crude Fibre	IS 2639/2002	>1%
<b>15.</b>	<b>Sugar and by-products</b>	Conductivity ash	ICUMSA GS2/3-17 (1994)/ Pepsico 139.001	>1%
		Colour	ICUMSA GS2/3-10 (1998)/ Pepsico 190.002	>1%
		Colour	ICUMSA GS2/3-9(2000)	>1%
		Turbidity	Pepsico 190.002	>1%
		Polarisation	ICUMSA GS2/3-1 (1994) /Pepsico 190.004	>1%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>27 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Moisture	ICUMSA GS2/1/3-15(1994) /Pepsico 130.006	>1%
		Foreign matter	ICUMSA GS2/3-19 (1994)/ Pepsico 190.006	>1%
		Sulphur dioxide	ICUMSA GS2-33 (1994) / Pepsico 161.006	>1%
		Beverage floc	Pepsico190.005	>1%
<b>16.</b>	<b>Fruits and vegetable products (Neem Products)</b>	Azadirachtin A	IS 14299/2002	10 µg/g
<b>F.</b>	<b>Residues in Food Products</b>			
<b>1.</b>	<b>Antibiotic Residues</b>			
	<b>Fish &amp; fishery products,Meat &amp; meat products, Egg &amp; egg products,Milk &amp; dairy products, Honey &amp; honey products, Animal feeds.</b>	Chloramphenicol	USFDA,2003 by LC-MS/MS By Ridascreen Elisa Kit	0.02 ng/g 0.025 ng/g
		Nitrofurans & metabolites	USFDA,2004 by LC-MS/MS	
		3-Amino-5-morpholinomethyl-2-oxazolidone (AMOZ)		0.25 ng/g
		3-amino-2-oxazolidone (AOZ)		0.25 ng/g
		1-aminohydantoin (AHD)		0.25 ng/g
		Semicarbazide (SEM)		0.25 ng/g
		Nitrofurans	SGS/CHGL/SOP-Food/09	
		Furaltadone	by HPLC -MSMS	1 ng/g
		Furazolidone		1 ng/g
		Nitrofurazone		1 ng/g
	Nitrofurantoin		1 ng/g	

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>28 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Sulfonamides	SGS/CHGL/SOP-Food/05	
		Sulfamethazine	by LC-MSMS	2 ng/g
		Sulfamerazine		2 ng/g
		Sulfadiazine		2 ng/g
		Sulfapyridine		2 ng/g
		Sulfamethoxine		2 ng/g
		Sulfathiazole		2 ng/g
		Sulfamethoxazole		2 ng/g
		<b>Tetracyclines</b>		
		Oxy tetracycline,	SGS/CHGL/SOP-Food/011 by	25 ng/g
		Tetracycline	LC MS/MS	25 ng/g
		Chlortetracycline		25 ng/g
		Doxycycline		25 ng/g
		Oxolinic Acid	SGS/CHGL/SOP-Food/05 by LC-MSMS	1 ng/g
2.	<b>Fish &amp; Fishery Products and Meat &amp; Meat products</b>	Sulphur dioxide(Sodium metabisulphate as SO <sub>2</sub> )	AOAC:18 <sup>th</sup> Edition 2006/ EIC Manual	10µg/g
		Phosphate (as PO <sub>4</sub> )	AOAC:18 <sup>th</sup> Edition 2006/ EIC Manual	200 µg/g
		Polyphosphate (as P <sub>2</sub> O <sub>5</sub> )	AOAC:18 <sup>th</sup> Edition 2006/ EIC Manual	150 µg/g
		Indole	AOAC:18 <sup>th</sup> Edition 2006/ IS 2237:1997	20 ng/g
		Total Volatile Base Nitrogen (TVBN)	EIC Manual	1.5 mg/100g
		Tri methyl amine (TMA)	AOAC:18 <sup>th</sup> Edition 2006/ EIC Manual	25 ng/g
		Salt	AOAC:18 <sup>th</sup> Edition 2006/ EIC Manual	> 100 µg/g

Laboratory **SGS India Private Limited, Chennai**

Field **Chemical Testing**

Issue Date **15.05.2008**

Certificate Number **T-0118**

Valid Until **14.05.2010**

Last Amended on **-**

Page **29 of 76**

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
3.	<b>Mycotoxins in Food &amp; Feed</b>	Aflatoxin G2	AOAC: 18 <sup>th</sup> Edition 2006 by HPLC	0.25 ng/g
		Aflatoxin G1		0.25 ng/g
		Aflatoxin B2		0.25 ng/g
		Aflatoxin B1		1 ng/g
		Ochratoxin A		5 ng/g
4.	<b>Metals in Fish &amp; fishery products,Meat &amp; meat products, Milk &amp; dairy products,Animal feeds,Bakery &amp; confectionary products,Fruits &amp; vegetable products, Fruit juices &amp; concentrates,Spices &amp; condiments, Oil seeds &amp; by products,Cereals pulses &amp; by products</b>	Arsenic	AOAC:18 <sup>th</sup> Edition 2006 by ICPMS/AAS	0.05 µg/ml/g
		Cadmium		0.01 µg/ml/g
		Chromium		0.03 µg/ml/g
		Cobalt		0.01 µg/ml/g
		Copper		0.05 µg/ml/g
		Lead		0.05 µg/ml/g
		Magnesium		0.05 µg/ml/g
		Manganese		0.05 µg/ml/g
		Mercury		0.01 µg/ml/g
Nickel	0.05 µg/ml/g			
Zinc	0.05 µg/ml/g			

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>30 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
5.	<b>Veterinary Drug Residues</b>	Ronidazole	SGS/CHGL/SOP-Food/06 by LCMSMS	1 ng/g
		Metronidazole		1 ng/g
		Dimetridazole		1 ng/g
	<b>Fish &amp; fishery products, Meat &amp; meat products, Milk &amp; dairy products</b>	Fenbendazole		1 ng/g
		Tiamulin		1 ng/g
		Flubendazole		1 ng/g
		Albendazole		1 ng/g
		Ciprofloxacin		1 ng/g
		Diaveridine		1 ng/g
		Ethopabate		1 ng/g
		Flumequine		1 ng/g
		Orfloxacin		1 ng/g
		Sarafloxacin		1 ng/g
Chlorpromazine		1 ng/g		
6.	<b>Pesticide residues</b> <b>Fish &amp; fishery products, Meat &amp; meat products, Egg &amp; egg products, Milk &amp; dairy products, Bakery &amp; confectionary products</b>	<b>Organochlorine</b>	AOAC 18 <sup>th</sup> Edition 2006 by GCMS/LCMSMS	
		Aldrin		10ng/ml
		BHC (all isomers)		10ng/ml
		Chlordane (cis & trans)		10ng/ml
		Chlorothalonil		10ng/ml
		Dicofol		10ng/ml
		Dieldrin		10ng/ml
		Endosulfan I		10ng/ml
		Endosulfan II		10ng/ml
		Endosulfan sulphate		10ng/ml
		Endrin		10ng/ml
		Endrin aldehyde		10ng/ml
		Endrin ketone		10ng/ml
		HCH ( $\alpha$ & $\beta$ )		10ng/ml
		Heptachlor		10ng/ml
		Heptachlor epoxide		10ng/ml
Methoxy chlor	10ng/ml			
DDT (o,p & p,p)	10ng/ml			

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>31 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		DDE (o,p & p,p)	AOAC 18 <sup>th</sup> Edition 2006 by	10ng/ml
		DDD (o,p & p,p)	GCMS/LCMSMS	10ng/ml
		<b>Organophosphorous</b>		
		Azinophos methyl		10ng/ml
		Carbofenthion		10ng/ml
		Chlorfenvinphos		10ng/ml
		Chlorpyrifos		10ng/ml
		Chlorpyrifos-methyl		10ng/ml
		Diazinon		10ng/ml
		Dichlorvos		10ng/ml
		Dyfonate		10ng/ml
		Ethion		10ng/ml
		Fenitrothion		10ng/ml
		Iprobenphos		10ng/ml
		Malathion		10ng/ml
		Mevinphos		10ng/ml
		Parathion		10ng/ml
		Parathion ethyl		10ng/ml
		Paration methyl		10ng/ml
		Phosalone		10ng/ml
		Pirimiphos methyl		10ng/ml
		Profenophos		10ng/ml
		Quinalphos		10ng/ml
7.	<b>Pesticide residues in food.</b>	<b>Organochlorine</b>	SGS/CHGL/SOP -012,013 by GCMS/LCMSMS	
		Aldrin		10ng/ml
		BHC (all isomers)		10ng/ml
	<b>Fruits &amp; vegetable products</b>	Chlordane (cis & trans)		10ng/ml
	<b>Fruit juices &amp; concentrates, Cereals</b>	Chlorothalonil		10ng/ml
	<b>pulses &amp; by-products,</b>	Dicofol		10ng/ml
	<b>Oil seeds &amp; by-products</b>	Dieldrin		10ng/ml
		Endosulfan I		10ng/ml
		Endosulfan II		10ng/ml
		Endosulfan sulphate		10ng/ml

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>32 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
	<b>Nuts &amp; nuts products, Spices &amp; condiments, Coffee, cocoa &amp; by-products, Tea &amp; tea products</b>	Endrin	SGS/CHGL/SOP -012,013 by GCMS/LCMSMS	10ng/ml
		Endrin aldehyde		10ng/ml
		Endrin ketone		10ng/ml
		HCH ( $\alpha$ & $\beta$ )		10ng/ml
		Heptachlor		10ng/ml
		Heptachlor epoxide		10ng/ml
		Methoxy chlor		10ng/ml
		DDT (o,p & p,p)		10ng/ml
		DDE (o,p & p,p)		10ng/ml
		DDD (o,p & p,p)		10ng/ml
		<b>Organophosphorous</b>		
		Acephate		10ng/ml
		Azinophos methyl		10ng/ml
		Carbofenthion		10ng/ml
		Chlorfenvinphos		10ng/ml
		Chlorpyrifos		10ng/ml
		Chlorpyrifos-methyl		10ng/ml
		Diazinon		10ng/ml
		Dichlorvos		10ng/ml
		Dimethoate		10ng/ml
		Dyfonate		10ng/ml
		Ethion		10ng/ml
		Etrimphos		10ng/ml
		Fenitrothion		10ng/ml
		Fosetyl-Al		10ng/ml
		Iprobenphos		10ng/ml
		Malathion		10ng/ml
		Methamidophos		10ng/ml
		Methidathion		10ng/ml
		Mevinphos		10ng/ml
		Monocrotophos		10ng/ml

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>33 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Omethoate	SGS/CHGL/SOP -012,013 by GCMS/LCMSMS	10ng/ml
		Oxydemeton-methyl		10ng/ml
		Parathion		10ng/ml
		Parathion ethyl		10ng/ml
		Paration methyl		10ng/ml
		Phorate	SGS/CHGL/SOP -012,013 by GCMS/LCMSMS	10ng/ml
		Phosalone		10ng/ml
		Phosphamidon		10ng/ml
		Pirimiphos methyl		10ng/ml
		Profenophos		10ng/ml
		Quinalphos		10ng/ml
		Triazophos		10ng/ml
		Phosmet		10ng/ml
		<b>Synthetic Pyrethroids</b>		
		Cyfluthrin		10ng/ml
		Cypermethrin (Sum of all isomers)		10ng/ml
		Deltamethrin		10ng/ml
		Ethofenprox (Etofenprox)		10ng/ml
		Fenvalerate & Esfenvalerate (sum of RR & SS isomers)		10ng/ml
		Fenvalerate & Esfenvalerate (sum of RS & SR isomers)		10ng/ml
		Lambda-cyhalothrin ( $\alpha$ & $\beta$ )		10ng/ml
		Permethrin		10ng/ml
		Triazines		10ng/ml
		Atrazine		10ng/ml
		Simazine		10ng/ml

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>34 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		<b>Acylamino acid fungicides</b>	SGS/CHGL/SOP -012,013 by GCMS/LCMSMS	10ng/ml
		Metalaxyl		10ng/ml
		<b>Carbamates</b>		
		Carbaryl		10ng/ml
		Carbofuran		10ng/ml
		Carbosulfan		10ng/ml
		Indoxacarb		10ng/ml
		Methomyl		10ng/ml
		Thiodicarb		10ng/ml
		Pyrimidines		10ng/ml
		Fenarimol		10ng/ml
		<b>Triazoles</b>		
		Bitertanol		10ng/ml
		Flusilazole		10ng/ml
		Hexaconazole		10ng/ml
		Myclobutanil		10ng/ml
		Penconazole		10ng/ml
		Propiconazole		10ng/ml
		Tebuconazole		10ng/ml
		Triadimefon		10ng/ml
		Difenoconazole		10ng/ml
		Cyproconazole		10ng/ml
		<b>Dicarboximides</b>		
		Captafol		10ng/ml
		Captan		10ng/ml
		Iprodione		10ng/ml

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>35 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Benzimidazole	SGS/CHGL/SOP -012,013 by GCMS/LCMSMS	10ng/ml
		Carbendazim	By UV spectrophotometry	10ng/ml
		Thiophanate-methyl		10ng/ml
		Nicotinoids		10ng/ml
		Acetamiprid		10ng/ml
		Clothianidin		10ng/ml
		Imidacloprid		10ng/ml
		Thiacloprid		10ng/ml
		Thiamethoxam		10ng/ml
		Natural Product Derivative		10ng/ml
		Buprofezin		10ng/ml
		Cartap hydrochloride		10ng/ml
		Emamectin Benzoate		10ng/ml
		Spinosad (Sum of Spinosad A+B)		10ng/ml
		Aliphatic Nitrogen fungicides		10ng/ml
		Cymoxanil		10ng/ml
		Dinitrophenol		10ng/ml
		Dinocap		10ng/ml
		Morpholine		10ng/ml
		Dimethomorph		10ng/ml
		Substituted Thiourea		10ng/ml
		Diafenthuron		10ng/ml
		Dithiocarbamates		10ng/ml
		Carbon di sulfide (Mancozeb, Maneb, Propineb, Metiram, Thiram and Ziram collectively estimated as CS <sub>2</sub>		50 ng/g
		Others		

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>36 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Azoxystrobin	By UV spectrophotometry	10ng/ml
		Chlorthalonil		10ng/ml
		Etrimfos		10ng/ml
		Fipronil		10ng/ml
		Flufenoxuron		10ng/ml
		Metaldehyde		10ng/ml
		Oxyfluorfen		10ng/ml
		Propargite		10ng/ml
		Pentachlorophenol		10ng/ml
		Prothofos		10ng/ml
		4-bromo-2-chlorophenol		10ng/ml
		Imazalil		10ng/ml
<b>8.</b>	<b>Food Dyes</b>	Sudan I	SGS/CHGL/SOP-Food/010 by	10ng/g
		Sudan II	LC-MSMS	10ng/g
	<b>Bakery &amp; confectionery products, Spices &amp; condiments, Colour flavours &amp; preservatives, Food additives</b>	Sudan III		10ng/g
		Sudan IV		10ng/g
		Para red		10ng/g
		Rhodamine-B		10ng/g
		Butter yellow		10ng/g
		Sudan Red-7B		10ng/g
		Sudan Red-B		10ng/g
		Sudan Red-G		10ng/g
		Sudan Orange-G		10ng/g
		Toluidine Red		10ng/g
		Sudan Black-B		10ng/g
		Orange II		10ng/g
		Fast Garnet-GBC		10ng/g
		p-Nitro Aniline		10ng/g

Laboratory **SGS India Private Limited, Chennai**

Field **Chemical Testing**

Issue Date **15.05.2008**

Certificate Number **T-0118**

Valid Until **14.05.2010**

Last Amended on **-**

Page **37 of 76**

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
9.	<b>Bakery &amp; confectionery products</b>	Moisture	AOAC 18 <sup>TH</sup> EDN 2006	>1%
		Ash	AOAC 18 <sup>TH</sup> EDN 2006	>1%
		Protein	AOAC 18 <sup>TH</sup> EDN 2006	>1%
	<b>Fruits &amp; vegetable products, Fruit juices and concentrates</b>	Fat	AOAC 18 <sup>TH</sup> EDN 2006	>1%
		Fibre	AOAC 18 <sup>TH</sup> EDN 2006	>1%
		Carbohydrates	AOAC 18 <sup>TH</sup> EDN 2006	>1%
	Energy	By Pearson's Composition And Analysis Of FoodS,9 <sup>TH</sup> Edn.		
<b>G. Building Materials</b>				
1.	<b>Cement and Other Mortars</b>	Loss On Ignition	IS 4032 - 1985, Reaffirmed 2005	0.1% - 15%
		Silica as SiO <sub>2</sub>	IS 4032 - 1985, Reaffirmed 2005	15% - 25.0%
		Mixed Oxides as R <sub>2</sub> O <sub>3</sub>	IS 4032 - 1985, Reaffirmed 2005	0.3% - 8%
		Iron as Fe <sub>2</sub> O <sub>3</sub>	IS 4032 - 1985, Reaffirmed 2005	0.3% - 8.0%
		Calcium as CaO	IS 4032 - 1985, Reaffirmed 2005	30% - 60%
		Magnesium as MgO	IS 4032 - 1985, Reaffirmed 2005	0.3% - 8%
		Sodium as Na <sub>2</sub> O	IS 4032 - 1985, Reaffirmed 2005	0.1% to 2%
		Potassium as K <sub>2</sub> O	IS 4032 - 1985, Reaffirmed 2005	0.1% to 2%
		Insoluble Residue	IS 4032 - 1985, Reaffirmed 2005	0.1 to 10%
		Sulphuric Anhydride as SO <sub>3</sub>	IS 4032 - 1985, Reaffirmed 2005	0.1% to 5%
2.	<b>Pozzolanic Materials and Flyash</b>	Loss On Ignition	IS 1727 - 1967	0.1% - 15%
		Silica as SiO <sub>2</sub>	IS 1727 - 1967, Reaffirmed 2004	15% - 65.0%
		Mixed Oxides as R <sub>2</sub> O <sub>3</sub>	IS 1727 - 1967, Reaffirmed 2004	5% - 40%
		Iron as Fe <sub>2</sub> O <sub>3</sub>	IS 1727 - 1967, Reaffirmed 2004	2% - 18.0%
		Calcium as CaO	IS 1727 - 1967, Reaffirmed 2004	5% - 25%
		Magnesium as MgO	IS 1727 - 1967, Reaffirmed 2004	0.3% - 8%
		Sodium as Na <sub>2</sub> O	IS 1727 - 1967, Reaffirmed 2004	0.1% to 2%
		Potassium as K <sub>2</sub> O	IS 1727 - 1967, Reaffirmed 2004	0.1% to 2%
		Sulphuric Anhydride as SO <sub>3</sub>	IS 1727 - 1967, Reaffirmed 2004	0.1 to 10%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>38 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
<b>H.</b>	<b>Ores &amp; Minerals</b>			
<b>1.</b>	<b>Lime Stone, Dolomite and Allied Materials</b>	Loss On Ignition	IS 1760 P-1/1991,Reaffirmed 2006	30% - 50%
		Silica as SiO <sub>2</sub>	IS 1760 P-2/1991,Reaffirmed 2006	0.5% - 15.0%
		Alumina as Al <sub>2</sub> O <sub>3</sub>	IS 1760 P-3/1991,Reaffirmed 2006	0.3% - 5 %
		Iron as Fe <sub>2</sub> O <sub>3</sub>	IS 1760 P-3/1991,Reaffirmed 2006	0.3% - 5.0%
		Calcium as CaO	IS 1760 P-3/1991,Reaffirmed 2006	10 % - 55%
		Magnesium as MgO	IS 1760 P-3/1991,Reaffirmed 2006	0.3% - 5%
<b>2.</b>	<b>Iron Ore</b>	Iron as Fe	IS : 1493 P1/1959,Reaffirmed 2006	55% - 70 %
		Silica as SiO <sub>2</sub>	IS : 1493 P1/1959,Reaffirmed 2006	0.5% - 15%
		Alumina as Al <sub>2</sub> O <sub>3</sub>	IS : 1493 P1/1959,Reaffirmed 2006	0.3% - 7%
		Sulphur as S	IS : 1493 P1/1959,Reaffirmed 2006	0.004% - 0.05%
		Phosphorous asP	IS : 1493 P1/1959,Reaffirmed 2006	0.01% - 0.15%
		Copper as Cu	IS : 1493 P5/1996	0.001% - 0.02%
		Lead as Pb	IS : 1493 P7/1998	0.001 % - 0.02%
		Zinc as Zn	IS : 1493 P7/1998	0.001 - 0.02%
<b>3.</b>	<b>Gypsum</b>	Free water	IS 1288/1982,Reaffirmed 1999	0.1% - 2%
		Combined water	IS 1288/1982,Reaffirmed 1999	5 % - 25%
		Silica and acid Insolubles	IS 1288/1982,Reaffirmed 1999	0.5%- 5%
		Iron and Aluminium Oxides	IS 1288/1982,Reaffirmed 1999	0.2% - 0.5%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>39 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Calcium oxides	IS 1288/1982,Reaffirmed 1999	20% - 35%
		Magnesium oxides	IS 1288/1982,Reaffirmed 1999	0.5% - 2.0%
		Sulphur as SO <sub>3</sub>	IS 1288/1982,Reaffirmed 1999	35% - 46.0%
		Sodium Chloride	IS 1288/1982,Reaffirmed 1999	0.1% - 1%
		Alumina as Al <sub>2</sub> O <sub>3</sub>	IS 1288/1982,Reaffirmed 1999	0.1% - 2%
<b>4.</b>	<b>Barytes</b>	Specific Gravity	API 13A	4.0- 5.0
		Retention on 200 Mesh	API 13A	0.5% - 5%
		Barium Sulphate	IS : 2881/1997	85% - 99.5%
		Silica	IS : 2881/1997	0.5% - 10%
<b>5.</b>	<b>Feldspar</b>	Loss on ignition	IS: 9749/2007	0.05% -1% 0.1% - 1%
		Silica as SiO <sub>2</sub>	IS: 9749/2007	50% - 99.9%
		Alumina as Al <sub>2</sub> O <sub>3</sub>	IS: 9749/2007	0.10% - 25%
		Iron as Fe <sub>2</sub> O <sub>3</sub>	IS: 9749/2007	0.02% - 0.5% 0.5% - 1%
		Magnesium oxide as MgO	IS: 9749/2007	0.05% - 1%
		Calcium as CaO	IS: 9749/2007	0.05% - 0.2% 0.2% - 3%
		Sodium as Na <sub>2</sub> O	IS: 9749/2007	1% - 5% 5% - 15%
		Potassium as K <sub>2</sub> O	IS: 9749/2007	0.5% - 1%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>40 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
6.	<b>Rock Phosphate</b>	Total Phosphate as P <sub>2</sub> O <sub>5</sub>	IS: 11224.- 1985,Reaffirmed 2003	25 - 38%
		Chloride as Cl	IS: 11224.- 1985,Reaffirmed 2003	0.05% - 0.15%
		Silica as SiO <sub>2</sub>	IS: 11224.- 1985,Reaffirmed 2003	1 - 12%
		Moisture	IS: 11224.- 1985,Reaffirmed 2003	0.5 - 2.5%
7.	<b>Copper Ore, Zinc Ore and Lead Ores</b>	Copper Content	IBM - 2004/ ICP/AAS	0.05% - 40%
		Lead Content	IBM - 2004/ ICP/AAS	0.10% to 40%
		Zinc Content	IBM - 2004/ ICP/AAS	0.1% to 40%
		Gold	IBM - 2004/ ICP/AAS	0.01 - 100ppm
		Sulphur	IBM - 2004/ ICP/AAS	0.1% to 40%
		Silica	IBM - 2004/ ICP/AAS	0.1% to 25%
8.	<b>Titanium Ores</b>	Iron	IBM - 2004/ ICP/AAS	1 - 60%
		Titanium	IBM - 2004/ ICP/AAS	1 - 60%
		Silica	IBM - 2004/ ICP/AAS	0.1 - 50%
9.	<b>Geochemical Exploration Samples for Basemetal and Trace Elements (Soils, Rock Chips, Drill Cores and Ore grade Samples</b>	Gold, Platinum and Palladium	Fire Assay and AAS / ICP MS Finish	0.01 - 100ppm
		Silica, Alumina and Iron	IBM - 2004/ ICP/AAS	0.1 - 99.9%
		Minor and Trace Metals by ICP OES/ AAS / ICP MS	IBM / ICP 40B, 12B, 42S	0.5ppm to 15%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>41 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
<b>I.</b>	<b>Industrial and Fine Chemicals</b>			
<b>1.</b>	<b>Aluminium Sulphate (Ferric)</b>	Water Soluble Aluminium Compounds as Al <sub>2</sub> O <sub>3</sub>	IS: 299 - 1989,Reaffirmed 2006	7.0 - 18%
		Insoluble matter	IS: 299 - 1989,Reaffirmed 2006	0.1- 4%
		pH	IS: 299 - 1989,Reaffirmed 2006	5 - 10
		Iron as Fe	IS: 299 - 1989,Reaffirmed 2006	0.2 -2.0%
<b>2.</b>	<b>Aluminium Sulphate (Non - Ferric)</b>	Water Soluble Aluminium Compounds as Al <sub>2</sub> O <sub>3</sub>	IS: 260 - 1989,Reaffirmed 2006	14.0 - 18.0%
		Insoluble matter	IS: 260 - 1989,Reaffirmed 2006	0.01 - 0.1%
		pH	IS: 260 - 1989,Reaffirmed 2006	1.0 – 14.0
		Iron as Fe	IS: 260 - 1989,Reaffirmed 2006	0.01 -0.10% 0.1 - 1%
<b>3.</b>	<b>Bleaching Powder</b>	Avaliable Chlorine as CaOCl	IS: 1065 - 1989,Reaffirmed 2003	25 -70%
		Moisture	IS: 1065 - 1989,Reaffirmed 2003	0.1 - 2.5%
<b>4.</b>	<b>Caustic Soda</b>	Assay (Solid)	IS 252:1991, Reaffirmed 2003	95 - 98%
		Assay(Liquid)	IS 252:1991, Reaffirmed 2003	48 - 60%
		Alkali(Na <sub>2</sub> O)	IS 252:1991, Reaffirmed 2003	74.4 - 76%
		Sodium Carbonate	IS 252:1991, Reaffirmed 2003	0.5 - 2.0%
		Matter Insoluble in water	IS 252:1991, Reaffirmed 2003	0.1- 1.0%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>42 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
5.	<b>Sodium Chloride</b>	Assay NaCl	IS 253-1985, Reaffirmed 2004	80 to 100%
		Calcium and Magnesium	IS 253-1985, Reaffirmed 2004	0.10 to 1%
		Moisture @150deg C	IS 253-1985, Reaffirmed 2004	0.10 to 1%
		Iron as Fe	IS 253-1985, Reaffirmed 2004	0 - 100ppm
		Matter Insoluble in water	IS 253-1985, Reaffirmed 2004	0.10 to 2%
		Iodine as I	IS 7224-2006	10 to 100ppm
		Sulfates as SO <sub>4</sub>	IS 253-1985, Reaffirmed 2004	0.1 to 1.0%
7.	<b>Magnesium Sulphate / Magnesium Sulphate Heptahydrate</b>	Purity as MgSO <sub>4</sub> / Purity as MgSO <sub>4</sub> 7H <sub>2</sub> O	IS: 2730/1977,Reaffirmed 2003	40 % - 99.9%
		Iron as Fe	IS: 2730/1977,Reaffirmed 2003	1 ppm - 100ppm
		Matter insoluble in water	IS: 2730/1977,Reaffirmed 2003	0.1% - 1% 1% - 2%
		Chlorides as Cl	IS: 2730/1977,Reaffirmed 2003	5 ppm - 50ppm
8.	<b>Copper Sulphate</b>	Matter insoluble In water	IS :261/1982,Reaffirmed 1999	Upto 0.10%
		Copper as Cu	IS :261/1982,Reaffirmed 1999	20 - 25%
		Soluble iron & Aluminium	IS :261/1982,Reaffirmed 1999	0.05% - 0.10%
9.	<b>Soda Ash</b>	Loss on ignition @300°C	IS : 251/1998,Reaffirmed 2003	0.1% - 1% 1% - 2%
		Total Alkalinity As Na <sub>2</sub> CO <sub>3</sub>	IS : 251/1998,Reaffirmed 2003	95 % - 99.9%
		Matter insoluble in water	IS : 251/1998,Reaffirmed 2003	0.05% - 0.5% 0.5% - 1%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>43 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Iron as Fe <sub>2</sub> O <sub>3</sub>	IS : 251/1998,Reaffirmed 2003	1ppm - 10ppm 10ppm - 50ppm 50ppm - 100 ppm
		Chlorides as Cl	IS : 251/1998,Reaffirmed 2003	0.01% - 0.10% 0.1% - 0.5%
<b>10.</b>	<b>Trace Element Analysis in Rubber and Plastic Chemcials and Coatings</b>	Pb, Cd, Cr, Ba, Sb, As, Hg, Se	EN 71 Part 3	0.1ppm to 500ppm for Pb and 0.05 to 200ppm for all others
		Cd	EN 1122 - 2001	0.1ppm to 500ppm
<b>11.</b>	<b>Quick Lime and Hydrated Lime</b>	Volatile matter At 105°C	IS : 1514/1990,Reaffirmed 1996	0.1% - 1% 1% - 20%
		Loss on ignition	IS : 1514/1990,Reaffirmed 1996	0.5% - 2% 2% - 20%
		Available Lime As CaO	IS : 1514/1990,Reaffirmed 1996	40% - 75%
		Acid insolubles	IS : 1514/1990,Reaffirmed 1996	0.1% - 1% 1% - 2%
<b>12.</b>	<b>Zinc Oxide</b>	Moisture	IS :7086P1/1973,Reaffirmed 2007	0.1% - 1% 1% - 5%
		Matter soluble in water	IS :7086P1/1973,Reaffirmed 2007	0.05% - 0.1% 0.1% - 0.5%
		Loss on ignition	IS :7086P1/1973,Reaffirmed 2007	0.05% - 0.5% 0.5% - 2%
		Matter insoluble In Hydrochloric Acid	IS :7086P1/1973,Reaffirmed 2007	0.1% - 0.5% 0.5% - 1%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>44 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
<b>13.</b>	<b>Basic Chrome Sulphate</b>	Moisture	IS:6301/1971,Reaffirmed 2001	1% - 5% 5% - 15%
		Total Sulphates as Na <sub>2</sub> SO <sub>4</sub>	IS:6301/1971,Reaffirmed 2001	10% - 40%
		Chromium as Cr <sub>2</sub> O <sub>3</sub>	IS:6301/1971,Reaffirmed 2001	18% - 30%
		Basicity	IS:6301/1971,Reaffirmed 2001	25 % - 40%
<b>J. Coal, Coke &amp; other Solid Fuel</b>				
<b>1.</b>	<b>Coal / Coke / Solid Fuels</b>	Total Moisture	IS: 1350 (P1) 1984,Reaffirmed 2001 ASTM D 3302 -07a, ISO 589C - 1981E	0.10% - 1%
		Analysis Sample Moisture / Inherent Moisture (IM)	IS: 1350 (P1) 1984,Reaffirmed 2001 ASTM D 3302 -07a, ISO 589C - 1981E	0.10% - 1% 1% - 10% 10% - 30%
		Ash	IS: 1350 (P1) 1984,Reaffirmed 2001 ASTM D 3302 -07a, ISO 589C - 1981E	0.10% - 1% 1% - 5% 5% - 2% 20% - 50%
		Volatile Matter, VM	IS: 1350 (P1) 1984,Reaffirmed 2001 ASTM D 3302 -07a, ISO 589C - 1981E	0.5% - 1% 1% - 10% 10% - 50%
		Fixed Carbon, FC (100-Ash -IM-VM)	IS: 1350 (P1) 1984,Reaffirmed 2001 ASTM D 3302 -07a, ISO 589C - 1981E	60% - 95%
		Gross Calorific Value, Kcal/kg	IS: 1350 (P2) 1970,Reaffirmed 2000 ASTM D 5865 - 07, ISO 1928 -76E	4000 – 6000Kcal 6000 – 9000 Kcal
		Sulphur as S	ASTM D 3177 - 97, ISO 334-92E	0.03% - 0.05% 0.10% - 1% 1% - 6%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>45 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
<b>K.</b>	<b>Fertilizers</b>			
<b>1.</b>	<b>Diammonium Phosphate</b>	Moisture	IS:6092 P-6/1985,Reaffirmed 2000	0.1% - 1% 1% - 5% 5% - 20%
		Total Nitrogen	IS:6092 P-2/1985,Reaffirmed 1994	15% - 20% 20% - 60%
		Ammoniacal Nitrogen	IS:6092 P-2/1985,Reaffirmed 1994	15% - 30%
		Water soluble Phosphate P <sub>2</sub> O <sub>5</sub>	IS:6092 P-3/1985,Reaffirmed 2004	0.1% - 1% 1% - 5%
		Total Phosphorous P <sub>2</sub> O <sub>5</sub>	IS:6092 P-3/1985,Reaffirmed 2004	30% - 50%
<b>2.</b>	<b>Urea</b>	Total Nitrogen	FCO 1985	40% - 50%
		Biuret Content	FCO 1985	0.1% - 2%
		Moisture	FCO 1985	0.1% - 2%
<b>3.</b>	<b>Mureat of Potash</b>	Purity as KCl	FCO 1985	90% - 99%
		Sodium as NaCl	FCO 1985	0.2% - 3%
		Potassium as K <sub>2</sub> O	FCO 1985	55% - 65%
		Calcium as Ca	FCO 1985 / ICP OES	0.1% - 1%
		Sulphates as SO <sub>4</sub>	FCO 1985	0.1% - 2%
<b>L.</b>	<b>Metals and Alloys</b>			
<b>1.</b>	<b>Stainless Steel / Plain Carbon Steel &amp; Mild Steel</b>	Silicon	IS 228 P8/1989,Reaffirmed 2004	0.05% - 1% 1% - 7%

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>46 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Carbon	IS 228 P1/1987,Reaffirmed 2002	0.03% - 0.5% 0.5% - 2%
		Manganese	IS 228 P12/2001,Reaffirmed 2004	0.05% - 1% 1% - 7%
		Sulphur	IS 228 P9/1989,Reaffirmed 2004	0.005% - 0.1% 0.1% - 0.5%
		Phosphorous	IS 228 P3/1987,Reaffirmed 2002	0.005% - 0.1% 0.1% - 0.5%
		Chromium	IS 228 P6/1987,Reaffirmed 2002	0.1% - 2% 2% - 10% 10% - 30%
		Nickel	IS 228 P5/1987,Reaffirmed 2002	0.1 % - 5 %
<b>2.</b>	<b>Pig Iron and Cast Iron</b>	Carbon	IS :12308 P4/1987,Reaffirmed 2002	1% - 5%
		Silicon	IS :12308 P6/1991,Reaffirmed 2001	0.05% - 1% 1% - 7%
		Manganese	IS :12308 P3/1987,Reaffirmed 2002	0.05% - 1% 1% - 7%
		Sulphur	IS :12308 P2/1987,Reaffirmed 2002	0.005% - 0.1% 0.1% - 0.5%
		Phosphorus	IS :12308 P5/1991,Reaffirmed 1999	0.005% - 0.1%
<b>M.</b>	<b>Pesticides – Technical grade and Formulations</b>			
<b>1.</b>	<b>Chlorpyrifos, Technical</b>	Description	IS 8963 - 2006	Visual
		Acidity as H <sub>2</sub> SO <sub>4</sub>	IS 8963 - 2006	0.0% - 0.5%
		Purity as Chlorpyrifos	IS 8963 - 2006	90% - 99%
		Water Content	IS 8963 - 2006	0.0% - 0.5%

Laboratory **SGS India Private Limited, Chennai**

Field **Chemical Testing**

Issue Date **15.05.2008**

Certificate Number **T-0118**

Valid Until **14.05.2010**

Last Amended on **-**

Page **47 of 76**

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
2.	<b>Chlorpyrifos, EC</b>	Description	IS 8944 - 2005	Visual
		Cold Test	IS 8944 - 2005	Visual
		Flash Point	IS 8944 - 2005	Ambient to 50°C
		Emulsion Stability	IS 8944 - 2005	Visual
		Acidity as H <sub>2</sub> SO <sub>4</sub>	IS 8944 - 2005	0.0% - 0.05%
3.	<b>Cypermethrin, Technical</b>	Purity as Chlorpyrifos	IS 8944 - 2005	5% - 60%
		Description	IS 12015 - 1987, Reaffirmed 2007	Visual
		Purity as Cypermethrin	IS 12015 - 1987, Reaffirmed 2007	90% to 99%
4.	<b>Cypermethrine, EC</b>	Acidity as H <sub>2</sub> SO <sub>4</sub>	IS 12015 - 1987, Reaffirmed 2007	0.0% - 0.1%
		Moisture Content	IS 12015 - 1987, Reaffirmed 2007	0.0% to 0.5%
		Description	IS 12016 - 1987, Reaffirmed 2007	Visual
		Cold Test	IS 12016 - 1987, Reaffirmed 2007	Visual
		Flash Point	IS 12016 - 1987, Reaffirmed 2007	Ambient to 50°C
<b>N.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
1.	<b>Waste Water &amp; Liquid Effluents</b>	Colour	IS:3025 (Part-4) 2006 & APHA 21 <sup>ST</sup> EDI-2120 B	--
		Odour	IS:3025 (Part-5) 2006 & APHA 21 <sup>ST</sup> EDI-2150 B	--
		Turbidity in NTU	IS: 3025 (Part-10)2006 & APHA 21 <sup>ST</sup> EDI-2130 B	0.1 NTU
		Acidity as CaCO <sub>3</sub> , mg/l	IS:3025 (Part-22) 2003 & APHA 21 <sup>ST</sup> EDI-2310 B	0.2 mg/l
		Alkalinity to Phenolphthalein	IS:3025 ( Part-23 )2003 & APHA 21 <sup>ST</sup> EDI-2320 B	0.2 mg/l
		Total Alkalinity (or) Alkalinity to Methyl Orange As CaCO <sub>3</sub>	IS: 3025 (Part-23) 2003 & APHA 21 <sup>ST</sup> EDI-2320 B	0.2 mg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>48 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Total Hardness as CaCO <sub>3</sub> (EDTA Titration Method)	IS:3025 ( Part-21 ) 2003 & APHA 21 <sup>ST</sup> EDI-2340 C	0.2 mg/l
		Conductivity as μS/cm At 25°C	IS:3025 ( Part-14 ) 2006 & APHA 21 <sup>ST</sup> EDI-2510 B	0.1μmhos/cm
		Temperature °C	IS:3025 ( Part-9 )2006 & APHA 21 <sup>ST</sup> EDI-2550 B	0-110°C
		pH at 25°C	IS:3025 ( Part-11 ) 2006 & APHA 21 <sup>ST</sup> EDI-4500-H <sup>+</sup> B	1.0 – 14.0
		Total Solids	IS:3025 (Part-15) 2003 & APHA 21 <sup>ST</sup> EDI-2540 B	1mg/l
		Total Dissolved Solids, mg/l	IS:3025 (Part-15) 2003 & APHA 21 <sup>ST</sup> EDI-2540 C	1 mg/l
		Total suspended solids, mg/l	IS:3025 (Part-17) 2006 & APHA 21 <sup>ST</sup> EDI-2540 D	1 mg/l
		Fixed Solids, mg/l	IS:3025 (Part-18) 2006 & APHA 21 <sup>ST</sup> EDI-2540 E	1 mg/l
		Volatile Solids, mg/l	IS:3025 (Part-18) 2006 & APHA 21 <sup>ST</sup> EDI-2540 E	1 mg/l
		Calcium as Ca,mg/l ( EDTA Titration Method)	IS:3025 (Part-40) 2003 & APHA 21 <sup>ST</sup> EDI-3500-Ca B	0.1 mg/l
		Magnesium as Mg, mg/l	IS:3025 (Part-46) 1999 & APHA 21 <sup>ST</sup> EDI-3500-Mg B	0.05 mg/l
		Aluminium as Al	IS 3025 (Part-55) 2003 & APHA 21 <sup>ST</sup> EDI-3125 B(ICP –MS)	1μg/l
		Arsenic as As	IS:3025(Part-37)1999 & APHA 21 <sup>ST</sup> EDI-3125 B(ICP –MS))	1μg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>49 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Cadmium as Cd	IS:3025(Part-41)2003 & APHA 21 <sup>ST</sup> EDI-3125 B (ICP –MS)	1µg/l
		Chromium as Cr (Total)	Annex-J of IS:13428:2005 & APHA 21 <sup>ST</sup> EDI-3125 B (ICP –MS)	1µg/l
		Copper as Cu	IS:3025(Part-42):2003 & APHA 21 <sup>ST</sup> EDI-3125 B (ICP –MS)	1µg/l
		Iron as Fe	IS:3025 Pt.53 : 2003 & APHA 21 <sup>ST</sup> EDI-3500-Fe B (Spectrophotometer)(ICP –MS)	0.02 mg/l 1µg/l
		Lead as Pb	IS:3025(Part-47)2003 & APHA 21 <sup>ST</sup> EDI-3125 B (ICP –MS)	1µg/l
		Manganese as Mn	Clause 35 of IS 3025:1964 & APHA 21 <sup>ST</sup> EDI-3125 B (ICP –MS)	1µg/l
		Nickel as Ni	Annex-L of IS:13428:2005 & APHA 21 <sup>ST</sup> EDI-3125 B (ICP –MS)	1µg/l
		Sodium as Na Flame Photometric Method	IS:3025(Part-45)1999 & APHA 21 <sup>ST</sup> EDI-3500-Na B	0.1mg/l
		Zinc as Zn	IS:3025(Part-49)1999 & APHA 21 <sup>ST</sup> EDI-3125 B (ICP –MS)	1µg/l
		Boron as B	Annex-H of IS:13428:2005 & APHA 21 <sup>ST</sup> EDI-4500-B B	5µg/l
		Cyanide as CN	4500CN-E APHA-20th Edition-4500-CN` C, 4500-CN` F & IS:3025(part-27) 2003	0.01 mg/l
		Chloride as Cl	APHA 21 <sup>ST</sup> EDI-4500-Cl` B & IS:3025 (Part-32) 1999	0.1 mg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>50 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Fluoride as F	APHA 21 <sup>ST</sup> EDI-4500-F C, 4500-F D & Cl.23 of IS:3025:1964	0.1
		Ammonical Nitrogen as NH <sub>3</sub> -N	APHA 21 <sup>ST</sup> EDI-4500-NH <sub>3</sub> C & IS:3025 (Part-34) 1999	0.1 mg/l
		Nitrate as NO <sub>3</sub>	APHA 21 <sup>ST</sup> EDI-4500-NO <sub>3</sub> <sup>-</sup> C & IS:3025 (Part-34) 1999	0.01mg/l
		Nitrite as NO <sub>2</sub>	APHA 21 <sup>ST</sup> EDI-4500-NO <sub>2</sub> <sup>-</sup> B & IS:3025(Part-34) 1999	0.001 mg/l
		Organic Nitrogen	APHA 21 <sup>ST</sup> EDI4500-N <sub>org</sub> B & IS:3025(Part-34) 1999	0.1 mg/l
		Total Kjeldahl Nitrogen	APHA 21 <sup>ST</sup> EDI-4500-N C & IS:3025(Part-34) 1999	0.1 mg/l
		Dissolved Oxygen	APHA 21 <sup>ST</sup> EDI-5210 B & IS:3025 (Part-38)1999	0.1 mg/l
		Phosphorous as P	APHA 21 <sup>ST</sup> EDI-4500-P D & IS:3025 (Part-31)1999	0.02 mg/l
		Silica as SiO <sub>2</sub> Reactive silica as SiO <sub>2</sub> Unreactive as SiO <sub>2</sub>	APHA 21 <sup>ST</sup> EDI-4500-SiO <sub>2</sub> D & IS:3025 (Part-35) 1999	0.02 mg/l
		Sulphide as S Iodometric Method	APHA 21 <sup>ST</sup> EDI-4500-S <sup>2-</sup> F & IS:3025 (Part-29)2003	0.08 mg/l
		Sulphite as SO <sub>3</sub> Iodometric method	APHA 21 <sup>ST</sup> EDI-4500-SO <sub>3</sub> <sup>2-</sup> B & IS:3025-1964	0.1 mg/l
		Sulphate as SO <sub>4</sub>	APHA 21 <sup>ST</sup> EDI-4500-SO <sub>4</sub> <sup>2-</sup> E & IS:3025 (Part-24):2003	0.5 mg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>51 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		BOD <sub>3</sub>	APHA 21 <sup>ST</sup> EDI-5210 B & IS:3025 (Part-44):1999	0.10 mg/l
		COD (Open reflux method)	APHA 21 <sup>ST</sup> EDI-5220 B	4 mg/l
		Oil and Grease Partition Gravimetric method	APHA 21 <sup>ST</sup> EDI-5520 B & IS:3025 (Part-39)1999	1 mg/l
		Phenols	APHA 21 <sup>ST</sup> EDI-5530 C & IS:3025 Pt.43:2003	0.001 mg/l
		Anionic surface active agents As MBAS	Annx-K of IS:13428:2005 APHA 21 <sup>ST</sup> EDI-5540 C	0.05 mg/l
		Potassium as K	IS:3025 (Part-45) 1999 & APHA 21 <sup>ST</sup> EDI-3500-K B	0.1 mg/l
		Hexavalent Chromium as Cr6+	APHA 21 <sup>ST</sup> EDI-3500-Cr B	0.01 mg/l
		Ozone (O <sub>3</sub> )	IS:3025 (Part-36) 1999 & APHA 21 <sup>st</sup> EDI-4500 O <sub>3</sub> B	30 µg/l
		Bromide	IS:3025 (Part-30) 1999, APHA 21 <sup>st</sup> Edi-4500 Br <sup>-</sup> B & EPA 317	10µg/l
		Iodide	IS:3025 (Part-33) 1999 APHA 21 <sup>st</sup> Edi-4500-I B & EPA 317	10µg/l
		Oxidation Reduction Potential	APHA 21 <sup>st</sup> EDI-2580 B	0.1mV

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>52 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
2.	<b>Volatile Organic Compounds</b>	Benzene	EPA 5030B/ 5030C	0.1 µg/l
		Bromobenzene		0.1 µg/l
		Bromochloromethane		0.1 µg/l
		Bromodichloromethane		0.1 µg/l
		Bromoform		0.1 µg/l
		n-Butylbenzene		0.1 µg/l
		Sec-Butylbenzene		0.1 µg/l
		Tert-Butylbenzene		0.1 µg/l
		Carbontetrachloride		0.1 µg/l
		Chlorobenzene		0.1 µg/l
		Chloroform		0.1 µg/l
		2-Chlorotoluene		0.1 µg/l
		4-Chlorotoluene		0.1 µg/l
		Dibromochloromethane		0.1 µg/l
		1,2-Dibromo-3-chloropropane		0.1 µg/l
		1,2-Dibromoethane		0.1 µg/l
		Dibromomethane		0.1 µg/l
		1,2- Dichlorobenzene		0.1 µg/l
		1,3-Dichlorobenzene		0.1 µg/l
		1,4-Dichlorobenzene		0.1 µg/l
		1,1-Dichloroethane		0.1 µg/l
		1,2 -Dichloroethane		0.1 µg/l
		1,1-Dichloroethene		0.1 µg/l
		Cis-1,2-Dichloroethene		0.0 µg/l
		Trans-1,2-Dichloroethene		0.1 µg/l
		2-Dichloropropane		0.1 µg/l
		1,3-Dichloropropane		0.1 µg/l
		2,2-Dichloropropane		0.1 µg/l
		1,1-Dichloropropene		0.1 µg/l
		Cis-1,3-Dichloropropene		0.1 µg/l
		trans-1,3-Dichloropropene		0.1 µg/l
		Ethylbenzene		0.1 µg/l
		Hexachlorobutadiene		0.1 µg/l
		Isopropylbenzene		0.1 µg/l
		p-Isopropyltoluene		0.1 µg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>53 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Dichloromethane	EPA 5030B/ 5030C	0.1 µg/l
		Napthalene		0.1 µg/l
		Propylbenzene		0.1 µg/l
		Styrene		0.1 µg/l
		1,1,1,2-Tetrachloroethane		0.1 µg/l
		1,1,2,2-Tetrachloroethane		0.1 µg/l
		Tetrachloroethene		0.1 µg/l
		Toluene		0.1 µg/l
		1,2,3-Trichlorobenzene		0.1 µg/l
		1,2,4-Trichlorobenzene		0.1 µg/l
		1,1,1-Trichloroethane		0.1 µg/l
		1,1,2-Trichloroethane		0.1 µg/l
		Trichloroethene		0.1 µg/l
		1,2,3-Trichloropropane		0.1 µg/l
		1,2,4-Trimethylbenzene		0.1 µg/l
		1,3,5-Trimethylbenzene		0.1 µg/l
		m-Xylene		0.1 µg/l
		o-Xylene		0.1 µg/l
		p-Xylene		0.1 µg/l
		Trichlorofluoromethane		0.1 µg/l
<b>3.</b>	<b>Polynuclear Aromatic Hydrocarbons (PAH)</b>	Acenaphthene	EPA 3510C/ EPA 8100	0.05µg/l
		Acenaphthylene		0.05µg/l
		Anthracene		0.05µg/l
		Phenanthrene		0.05µg/l
		Benz(a) anthracene		0.05µg/l
		Chrysene		0.05µg/l
		Benzo(b) fluoranthene		0.05µg/l
		Benzo(k) fluoranthene		0.05µg/l
		Indeno(1,2,3 -cd) perylene		0.05µg/l
		Benzo(g,h,i) perylene		0.05µg/l
		Dibenzo(a,h) anthracene		0.05µg/l
		Fluoranthene		0.05µg/l
		Pyrene		0.05µg/l
		Fluorene		0.05µg/l
		Naphthalene		0.05µg/l



<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>55 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		<b>Organochlorine pesticides</b>	EPA 3510C / 8141A / 8081A / 8260B/8270D	
		HCH & its isomers,		0.01µg/l
		DDT & its isomers		0.01µg/l
		DDT & its metabolites		0.01µg/l
		Endosulfan-alfa,beta		0.01µg/l
		Aldrin,		0.01µg/l
		Endrin,		0.01µg/l
		Dieldrin,		0.01µg/l
		Butachlor,		0.01µg/l
		Alachlor,		0.01µg/l
		Heptachlor,		0.01µg/l
		Heptachlor Epoxide,		0.01µg/l
		Chloradane,		0.01µg/l
		Bromopropylate,		0.01µg/l
		Methoxychlor,		0.01µg/l
		Mirex,		0.01µg/l
		Toxaphene,		0.01µg/l
		Folpet,		0.01µg/l
		Fenarimol,		0.01µg/l
		Captofol		0.01µg/l
		Captan,		0.01µg/l
		Chlorthalonil,		0.01µg/l
		Dichlorfluamid,		0.01µg/l
		Fenarimol		0.01µg/l
		Carbamates		0.01µg/l
		Carbaryl		0.01µg/l
		Carbofuran		0.01µg/l
		Carbendazim		0.01µg/l
		Carbosulfan		0.01µg/l
		Aldicarb		0.01µg/l
		Thiodicarb		0.01µg/l
		Dithiocarbamate		0.01µg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>56 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		<b>Other pesticides:</b>		
		Pyrethroids	EPA 3510C / 8141A / 8081A/	0.01µg/l
		Cypermethrin	8260B/8270D	0.01µg/l
		Deltamethrin		0.01µg/l
		Permethrin		0.01µg/l
		Allethrin		0.01µg/l
		Fenvalerate & its isomers		0.01µg/l
		Cyfluthrin		0.01µg/l
		Cyhalothrin		0.01µg/l
		Atrazine		0.01µg/l
		Simazine		0.01µg/l
		Metalaxyl		0.01µg/l
		Isoproturon		0.01µg/l
		Methomyl		0.01 µg/l
<b>6.</b>	<b>Soil/Sludges/ Scales</b>	Calcium as Ca	EPA 3050B	0.1 mg/kg
		Magnesium as Mg	EPA 3050B	0.1 mg/kg
		Sodium as Na	EPA 3050B	0.1 mg/kg
		Potassium as K	EPA 3050B	0.1 mg/kg
		Lead as Pb	USEPA 200.8/USEPA 3050B	0.1 mg/kg
		Cadmium as Cd	USEPA 200.8/USEPA 3050B	0.02 mg/kg
		Mercury as Hg	USEPA 200.8	0.05 mg/kg
		Copper as Cu	USEPA 200.8/USEPA 3050B	0.2 mg/kg
		Zinc as Zn	USEPA 200.8/USEPA 3050B	0.1 mg/kg
		Selenium as Se	USEPA 200.8/USEPA 3050B	0.2 mg/kg
		Arsenic as As	USEPA 200.8/USEPA 3050B	0.1 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>57 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Iron as Fe	USEPA 200.8/USEPA 3050B/ APHA 21 <sup>st</sup> EDI	0.1 mg/kg
		Manganese as Mn	USEPA 200.8/USEPA 3050B	0.05 mg/kg
		Chromium as Cr	USEPA 200.8/USEPA 3050B	0.2 mg/kg
		Nickel as Ni	USEPA 200.8/USEPA 3050B	0.2 mg/kg
		Tin as Sn	USEPA 200.8/USEPA 3050B/ APHA 21 <sup>st</sup> EDI	0.1 mg/kg
		Antimony as Sb	USEPA 200.8/USEPA 3050B	0.1 mg/kg
		Aluminium as Al	USEPA 200.8/USEPA 3050B	0.5 mg/kg
		Cobalt as Co	USEPA 200.8/USEPA 3050B	0.01 mg/kg
		Beryllium as Be	USEPA 200.8/USEPA 3050B	0.01 mg/kg
		Silver as Ag	USEPA 200.8/USEPA 3050B	0.1 mg/kg
		Uranium as U	USEPA 200.8/USEPA 3050B/ APHA 21 <sup>st</sup> EDI	0.01 mg/kg
		Barium as Ba	USEPA 200.8/USEPA 3050B	0.05 mg/kg
		Boron as B	USEPA 200.8/USEPA 3050B/ APHA 21 <sup>st</sup> EDI	0.5 mg/kg
		Tellurium as Te	USEPA 200.8/USEPA 3050B/ APHA 21 <sup>st</sup> EDI	0.2 mg/kg
		Vanadium as V	USEPA 200.8/USEPA 3050B	0.5 mg/kg
		Thallium as Tl	USEPA 200.8/USEPA 3050B	0.02 mg/kg
		Molybdenum as Mo	USEPA 200.8/USEPA 3050B	0.5 mg/kg
		Soil texture	International pipette method	-

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>58 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
	<b>Valotile Organic Compounds</b>	Benzene	EPA 5035 5035A	0.1 mg/kg
		Bromobenzene		0.1 mg/kg
		Bromochloromethane		0.1 mg/kg
		Bromodichloromethane		0.1 mg/kg
		Bromoform		0.1 mg/kg
		n-Butylbenzene		0.1 mg/kg
		Sec-Butylbenzene		0.1 mg/kg
		Tert-Butylbenzene		0.1 mg/kg
		Carbontetrachloride		0.1 mg/kg
		Chlorobenzene		0.1 mg/kg
		Chloroform		0.1 mg/kg
		2-Chlorotoluene		0.1 mg/kg
		4-Chlorotoluene		0.1 mg/kg
		Dibromochloromethane		0.1 mg/kg
		1,2-Dibromo-3-chloropropane		0.1 mg/kg
		1,2-Dibromoethane		0.1 mg/kg
		Dibromomethane		0.1 mg/kg
		1,2- Dichlorobenzene		0.1 mg/kg
		1,3-Dichlorobenzene		0.1 mg/kg
		1,4-Dichlorobenzene		0.1 mg/kg
		1,1-Dichloroethane		0.1 mg/kg
		1,2 –Dichloroethane		0.1 mg/kg
		1,1-Dichloroethene		0.1 mg/kg
		Cis-1,2-Dichloroethene		0.1 mg/kg
		Trans-1,2-Dichloroethene		0.1 mg/kg
		1,2-Dichloropropane		0.1 mg/kg
		1,3-Dichloropropane		0.1 mg/kg
		2,2-Dichloropropane		0.1 mg/kg
		1,1-Dichloropropene		0.1 mg/kg
		Cis-1,3-Dichloropropene		0.1 mg/kg
		trans-1,3-Dichloropropene		0.1 mg/kg
		Ethylbenzene		0.1 mg/kg
		Hexachlorobutadiene		0.1 mg/kg
		Isopropylbenzene		0.1 mg/kg
		p-Isopropyltoluene		0.1 mg/kg
		Dichloromethane		0.1 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>59 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Napthalene	EPA 5035 5035A	0.1 mg/kg
		Propylbenzene		0.1 mg/kg
		Styrene		0.1 mg/kg
		1,1,1,2-Tetrachloroethane		0.1 mg/kg
		1,1,2,2-Tetrachloroethane		0.1 mg/kg
		Tetrachloroethene		0.1 mg/kg
		Toluene		0.1 mg/kg
		1,2,3-Trichlorobenzene		0.1 mg/kg
		1,2,4-Trichlorobenzene		0.1 mg/kg
		1,1,1-Trichloroethane		0.1 mg/kg
		1,1,2-Trichloroethane		0.1 mg/kg
		Trichloroethene		0.1 mg/kg
		1,2,3-Trichloropropane		0.1 mg/kg
		1,2,4-Trimethylbenzene		0.1 mg/kg
		1,3,5-Trimethylbenzene		0.1 mg/kg
		m-Xylene		0.1 mg/kg
		o-Xylene		0.1 mg/kg
		p-Xylene		0.1 mg/kg
		Trichlorofluoromethane		0.1 mg/kg
	<b>Polynuclear Aromatic Hydrocarbons</b>	Acenaphthene		0.1 mg/kg
		Acenaphthylene		0.1 mg/kg
		Anthracene		0.1 mg/kg
		Benzo (a ) anthracene		0.1 mg/kg
		Benzo (b ) fluoranthene		0.1 mg/kg
		Benzo (k ) fluoranthene		0.1 mg/kg
		Benzo (g,h,i ) perylene		0.1 mg/kg
		Benzo (a ) pyrene	USEPA 3510C / 8100	0.1 mg/kg
		Chrysene		0.1 mg/kg
		Dibenz (a,h ) anthracene		0.1 mg/kg
		Fluoranthene		0.1 mg/kg
		Fluorene		0.1 mg/kg
		Indeno(1,2,3-cd )pyrene		0.1 mg/kg
		Naphthalene		0.1 mg/kg
		Phenanthrene		0.1 mg/kg
		Pyrene		0.1 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>60 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
	<b>Polychlorinated Biphenyls (PCB)</b>	2,4,4'-Trichlorobiphenyl	USEPA 3510C / 8082	0.1 mg/kg
		2,2',5,5'-Tetrachlorobiphenyl		0.1 mg/kg
		2,2',4,5,5'-Pentachlorobiphenyl		0.1 mg/kg
		2,2',3,4,4',5Hexachlorobiphenyl		0.1 mg/kg
		2,2',4,4',5,5'Hexachlorobiphenyl		0.1 mg/kg
		2,2',3,4,4',5,5'Heptachlorobiphenyl		0.1 mg/kg
<b>7.</b>	<b>Phenols</b>	Phenol	USEPA 8041	0.1 mg/kg
		2- methyl phenol (o – Cresol)		0.1 mg/kg
		3- methyl phenol (m – Cresol)		0.1 mg/kg
		4- methyl phenol (p – Cresol)		0.1 mg/kg
		Pentachlorophenol		0.1 mg/kg
		2,4,5 - trichlorophenol		0.1 mg/kg
		2,4,6 - trichlorophenol		0.1 mg/kg
<b>8.</b>	<b>TCLP Parameters (Toxic Characteristic Leaching Procedure)</b>	Lead as Pb	USEB 1311/USEPA 200.8/ USEPA 3050B	0.1 mg/kg
		Cadmium as Cd		0.02 mg/kg
		Mercury as Hg		0.05 mg/kg
		Copper as Cu		0.2 mg/kg
		Zinc as Zn		0.1 mg/kg
		Selenium as Se		0.2 mg/kg
		Arsenic as As		0.1 mg/kg
		Iron as Fe		0.1 mg/kg
		Manganese as Mn		0.05 mg/kg
		Chromium as Cr		0.2 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>61 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Nickel as Ni	USEB 1311/USEPA 200.8/ USEPA 3050B	0.2 mg/kg
		Tin as Sn	USEB 1311/USEPA 200.8/USEPA 3050B/ APHA 21 <sup>st</sup> EDI	0.1 mg/kg
		Antimony as Sb	USEB 1311/USEPA 200.8/ USEPA 3050B	0.1 mg/kg
		Aluminium as Al	USEB 1311/USEPA 200.8/ USEPA 3050B	0.5 mg/kg
		Cobalt as Co	USEB 1311/USEPA 200.8/ USEPA 3050B	0.01 mg/kg
		Beryllium as Be	USEPA 200.8/USEPA 3050B	0.01 mg/kg
		Silver as Ag	USEB 1311/USEPA 200.8/ USEPA 3050B	0.1 mg/kg
		Uranium as U	USEB 1311/USEPA 200.8/USEPA 3050B	0.01 mg/kg
		Barium as Ba	USEB 1311/USEPA 200.8/USEPA 3050B	0.05 mg/kg
		Tellurium as Te	USEB 1311/USEPA 200.8/ USEPA 3050B/ APHA 21 <sup>st</sup> EDI	0.2 mg/kg
		Vanadium as V	USEB 1311/USEPA 200.8/USEPA 3050B	0.5 mg/kg
		Thallium as Tl	USEB 1311/USEPA 200.8/ USEPA 3050B	0.02 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>62 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Molybdenum as Mo	USEB 1311/USEPA 200.8/ USEPA 3050B	0.5 mg/kg
		Boron as B	USEB 1311/USEPA 200.8/ USEPA 3050B	0.5 mg/kg
<b>9.</b>	<b>Pesticide residues</b>	Alpha HCH	EPA 1311/	0.1 mg/kg
		Beta HCH	EPA 8081A/ EPA 8082	0.1 mg/kg
		Gamma HCH (Lindane)		0.1 mg/kg
		Delta HCH		0.1 mg/kg
		O,P-DDT		0.1 mg/kg
		P,P- DDT		0.1 mg/kg
		O,P –DDD		0.1 mg/kg
		P,P – DDD		0.1 mg/kg
		O,P – DDE		0.1 mg/kg
		Alpha-Endosulfan		0.1 mg/kg
		Beta-Endosulfan		0.1 mg/kg
		Endosulfan sulfate		0.1 mg/kg
		Monocrotophos		0.1 mg/kg
		Ethion		0.1 mg/kg
		Chlorpyrifos		0.1 mg/kg
		Phorate		0.1 mg/kg
		Phorate sulphoxide		0.1 mg/kg
		Phorate sulphone		0.1 mg/kg
		2,4-D		0.1 mg/kg
		Butachlor		0.1 mg/kg
		Isoproturon		0.1 mg/kg
		Alachlor		0.1 mg/kg
		Atrazine		0.1 mg/kg
		Methyl parathion		0.1 mg/kg
		Methyl paraoxan		0.1 mg/kg
		Malathion		0.1 mg/kg

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>63 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Malaoxon	EPA 1311/	0.1 mg/kg
		Aldrin	EPA 8081A/ EPA 8082	0.1 mg/kg
		Dieldrin		0.1 mg/kg
		Chlordane		0.1 mg/kg
		Endrin		0.1 mg/kg
		Heptachlor and its epoxide		0.1 mg/kg
		Hexachlorobenzene		0.1 mg/kg
		Lindane		0.1 mg/kg
		Methoxychlor		0.1 mg/kg
		Toxaphene		0.1 mg/kg
		2,4,5- TP (SILVEX )		0.1 mg/kg
		2,4-Dinitrotoluene		0.1 mg/kg

#### O. AIR, GAS & ATMOSPHERE

<b>1. Stack Emission Monitoring</b>	Temperature (°C)		
	Flow Rate of the Flue Gas (Nm <sup>3</sup> /Hr)	IS 11255(Part 3):1985 / EPA Part 2	10Nm <sup>3</sup> /Hr
	Oxygen (%)	IS 13270:1992	0.1%
	Carbon Dioxide (%)	IS 13270:1992	0.1%
	Carbon Monoxide (ppm)	IS 13270:1992	1ppm
	Particulate Matter (mg/Nm <sup>3</sup> )	IS 11255(Part 1):1985 / EPA Part 5	10 mg/Nm <sup>3</sup>
	Sulphur Dioxide (mg/Nm <sup>3</sup> )	IS 11255(Part 2):1985 / EPA Part 6	5 mg/Nm <sup>3</sup>
	Nitrogen Oxides (mg/Nm <sup>3</sup> )	IS 11255(Part 7) / EPA Part 7	5 mg/Nm <sup>3</sup>
	Chlorine (mg/Nm <sup>3</sup> )	EPA Method 26A	1mg/lit

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>64 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Hydrochloric Acid (mg/Nm <sup>3</sup> )	EPA Method 26	0.1mg/lit (abs. Solution)
		Total Fluoride (mg/Nm <sup>3</sup> )	IS 11255(Part 5):1990 / EPA 13A	0.1mg/lit (abs. Solution)
		Sulphuric Acid Mist (mg/Nm <sup>3</sup> )	EPA Part – 8	5 mg/Nm <sup>3</sup>
		Moisture Content (%)	EPA Part – 4	5 gm/Nm <sup>3</sup>
		Ammonia (mg/Nm <sup>3</sup> )	IS 11255(Part 6):1999	0.01mg/lit (abs. Solution)
		Hydrogen Sulfide	IS 11255(Part 4):1985	0.1mg/lit (abs. Solution)
		Lead	EPA Method 12	1µg/lit
		Volatile Organic Compounds (VOC's) by Sorbent Tube	EPA Method 18 and TO 30 & 31	1ppb
		Dioxins and Furans	EPA – 23A	0.01 – 0.001 ng/I-TEQ/Nm <sup>3</sup>
		Formaldehyde	EPA 8315 A / TO-11A	100 ppb
		Heavy Metals	EPA – 29	1µg/lit
		Mercaptan	APHA -118 / NIOSH-2542	~1ppb
<b>2.</b>	<b>Ambient Air Quality Monitoring</b>	Suspended Particulate Matter (µg/m <sup>3</sup> )	IS 5182: Part 4 : 1999 (Reaff.2005)	5µg/m <sup>3</sup>
		Respirable Particulate Matter (µg/m <sup>3</sup> )	IS 5182: Part 23 : 2006	5µg/m <sup>3</sup>
		Sulphur Dioxide (µg/m <sup>3</sup> )	IS 5182: Part 2 : 2001	2µg/m <sup>3</sup>

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>65 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Nitrogen Oxides( $\mu\text{g}/\text{m}^3$ )	IS 5182:Part 6 :1975 (Reaff.1998)	$1\mu\text{g}/\text{m}^3$
		Carbon Monoxide	IS 5182:Part 10:1999 (Reaff. 2003)	1ppm
		Lead	IS 5182: Part 22: 2004	$1\mu\text{g}/\text{lit}$
		Ammonia	Nessler's Method	0.01mg/lit (abs. Solution)
		Hydrogen Sulphide	IS 5182(Part 7):1973	0.1mg/lit (abs. Solution)
		VOC's	ASTM - D 3685 - 2001/ D 3687 and EPA TO-17	1ppb
		Benzene	IS 5182(Part 11):1993	1ppb
		Ploy Aromatic Hydrocarbons (PAH)	IS 5182(Part 12):2004	0.05 $\mu\text{g}/\text{lit}$
		Total Fluorides	IS 5182(Part 13):1991	0.1mg/lit (abs. Solution)
		Chlorine	IS 5182(Part 19):1982	1mg/lit
		Mercaptan	NIOSH – 2542	$\sim$ 1ppb
		Formaldehyde	EPA 8315 A / TO-11A	100 ppb
		Heavy Metals	APHA 2nd Edition	$1\mu\text{g}/\text{lit}$
<b>3.</b>	<b>Indoor Air Quality Monitoring</b>	Respirable particulate matter	NIOSH – 0600	$5\mu\text{g}/\text{m}^3$
		Suspended particulate matter	NIOSH – 0500	$5\mu\text{g}/\text{m}^3$
		Sulphur dioxide	NIOSH – 6004	$2\mu\text{g}/\text{m}^3$

Laboratory **SGS India Private Limited, Chennai**

Field **Chemical Testing**

Issue Date **15.05.2008**

Certificate Number **T-0118**

Valid Until **14.05.2010**

Last Amended on **-**

Page **66 of 76**

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Oxides of nitrogen	NIOSH – 0614	1µg/m <sup>3</sup>
		Ammonia	NIOSH – 6016	0.01mg/lit (abs. Solution)
		VOCs	NIOSH – 2549	1ppb
		CO	NIOSH – 6004	1 ppm
		Formaldehyde	EPA 8315A / TO-11	100 ppb
		Heavy metals	NIOSH – 7300	1µg/lit
		Benzene	NIOSH – 1500	1ppb
		Toluene	NIOSH – 1500	1ppb
		Styrene	NIOSH – 1501	1ppb
<b>P.</b>	<b>WATER</b>			
<b>1.</b>	<b>Water for construction purpose (As per IS 456-2005 Specification clause -5.4 Table-1)</b>	Organic solids	IS 3025(part -18) 2006	1 mg/l
		Inorganic solids	IS 3025(Part-18) 2006	1 mg/l
		Sulphates as SO <sub>4</sub>	IS 3025(part-24) 2003	0.5 mg/l
		Chlorides as Cl	IS 3025(part-32) 1999	0.1 mg/l
		Suspended Matter	IS 3025(Part-17) 2006	1 mg/l
		pH Value	IS 3025(part-11) 2006	1-14

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>67 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		<b>Water Neutralization</b>		
		a) To neutralize 100ml of sample water using phenolphthalein as an indicator using 0.02N NaOH	IS 3025 (part-22) 2003	0.1 ml
		b) To neutralize 100ml of sample water using Mixed indicator using 0.02 N H <sub>2</sub> SO <sub>4</sub>	IS 3025(part-23) 2003	
2.	<b>Distilled Demineralized (Reagent Grade) Water as per IS 1070: 2003</b>	Specific Conductance at 25°C	IS:3025(Part-14) 2006	0.1µmhos/cm
		pH at 25°C	IS:3025(Part-11) 2006	1-14
		Total solids at 05°C	IS:3025(Part-15) 2003	1 mg/l
		Silica as SiO <sub>2</sub>	IS:3025(Part-35) 1999	0.02 mg/l
		Colour retention of KmnO <sub>4</sub> at 27°C	Annex-A of IS:1070: 2003	0.05 mg/l
3.	<b>Water for Swimming Pools (IS 3328/2003)</b> <b>Water for Swimming Pools (IS 3328/2003)</b>	pH Value	IS:3025 (part-11) 2006	1-14
		Total Alkalinity as CaCO <sub>3</sub>	IS:3025 (Part-23) 2003	0.2 mg/l
		Aluminium as Al	IS:3025 (Part-35) 1999	1µ/l
		Total residual chlorine	IS:3025(Part-26) 2003	0.1mg/l
		Oxygen absorbed in 4 hrs, At 27°C	Clause 51 of IS:3025-1964	0.05 mg/l
		Total dissolved solids	IS:3025(Part-16) 2006	1 mg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>68 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Chloride as Cl	IS:3025(Part-32) 1999	0.1 mg/l
		Iron as Fe	IS:3025( Pt.53 )2003 (Spectrophotometer) (ICP –MS)	0.02 mg/l 1µg/l
		Lead as Pb	IS:3025(Part-47)2003 (ICP –MS)	1µg/l
		Colour, Hazen units	IS:3025(Part-4) 1999	1Hazen
		Turbidity, NTU	IS:3025(Part-10) 2006	0.1 NTU
		Odour	IS:3025(Part-5) 2006	--
		Taste	IS:3025(Part-8) 2006	--
<b>4.</b>	<b>Industrial Water, Cooling purpose Water, Boiler Feed water, Boiler water, Condensate)</b>	Total hardness as CaCO <sub>3</sub>	IS:3025 (Part-21)2006 & APHA 21 <sup>ST</sup> EDN	0.2 mg/l
		pH Value	IS:3025 (Part-11) 2006 & APHA 21 <sup>ST</sup> EDI	1-14
		Dissolved oxygen	IS:3025(Part-38) 1999 & APHA 21 <sup>ST</sup> EDI	0.1 mg/l
		Iron as Fe	IS 3025(Part 53) 2003 & APHA 21 <sup>ST</sup> EDI (Spectrophotometer) (ICP –MS)	0.02 mg/l 1µg/l
		Copper as Cu	IS:3025(Part-42)2003 & APHA 21 <sup>ST</sup> EDI (ICP –MS)	1µg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>69 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Silica as SiO <sub>2</sub>	IS:3025(Part-35) 1999 & 4500-C,D APHA 21 <sup>ST</sup> EDI (Spectrophotometer)	0.02mg/l
		Oil and Grease	IS:3025(Part-39) 2003 & APHA 21 <sup>ST</sup> EDI	1 mg/l
		Residual hydrazine as N <sub>2</sub> H <sub>4</sub>	IS:3550:2003	0.1 mg/l
		Conductivity at 25°C	IS:3025(Part-14) 2006 & APHA 21 <sup>ST</sup> EDI	0.1µmhos/cm
		Oxygen consumed in 4 hrs	IS:3025-1964	0.1 mg/l
		Phosphate as PO <sub>4</sub>	IS:3025(Part-31) 1999 & APHA 21 <sup>ST</sup> EDI	0.02 mg/l
		Caustic alkalinity as CaCO <sub>3</sub>	IS:3025 Pt.23 : 2003	0.2 mg/l
		Total alkalinity as CaCO <sub>3</sub>	IS:3025(Part-23) : 2003 & APHA 21 <sup>ST</sup> EDI	0.2 mg/l
		Total dissolved solids	IS:3025(Part-15): 2003 & APHA 21 <sup>ST</sup> EDI	1 mg/l
		Chloride as Cl	IS:3025(Part-32) 1999 & APHA 21 <sup>ST</sup> EDI	0.1 mg/l
		Ammonia as NH <sub>3</sub>	IS:3025(Part-34) 1999 & APHA 21 <sup>ST</sup> EDI	0.01 mg/l
		Sodium as Na	IS:3025(Part-45) 1999 & APHA 21 <sup>ST</sup> EDI	0.1 mg/l
		Potassium as K	IS:3025 (Part-45) 1999 & APHA 21 <sup>ST</sup> EDI	0.1 mg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>70 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
5.	<b>Bore water &amp; potable water, Drinking Water – IS:10500-1993, W.H.O. Edi-3, EU directive 98/83/EC, Water for processed Food Industry: IS:4251:1992, Packaged Drinking Water-IS 14543-2004 (Amendment No.4) &amp; Natural Mineral Water as per IS 13428- 2005 (Amendment No.1&amp;2)</b>  (*Please see the note below)	Colour, True Colour units	IS: 3025 (Part-4) 2006 & APHA 21 <sup>ST</sup> EDI	1 Hazen
Odour		IS:3025 (Part-5) 2006 & APHA 21 <sup>ST</sup> EDI	--	
Taste		IS:3025(Part-8) 2006 & APHA 21 <sup>ST</sup> EDI	--	
Turbidity, NTU		IS:3025(Part-10) 2006 & APHA 21 <sup>ST</sup> EDI	0.1 NTU	
Total Dissolved solids		IS:3025(Part-16) 2006 & APHA 21 <sup>ST</sup> EDI	1 mg/l	
pH value		IS:3025(Part-11) 2006 & APHA 21 <sup>ST</sup> EDI	1-14	
Barium as Ba		Anex-F IS:13428: 2005 IS 15302 – 2003 & APHA 21 <sup>ST</sup> EDI (ICP –MS)	5µg/l	
Copper as Cu		IS:3025(Part-42) 2003 & APHA 21 <sup>ST</sup> EDI (ICP –MS)	1µg/l	
Iron as Fe		IS:3025 Pt 53: 2003 & APHA 21 <sup>ST</sup> EDI Spectrophotometer) (ICP –MS)	0.02 mg/l 1µg/l	
Manganese as Mn		IS 3025 Pt.6: 1999 & APHA 21 <sup>ST</sup> EDI (ICP –MS)	1µg/l	
Nitrate as NO <sub>3</sub>	IS:3025(Part-34)1999 & APHA 21 <sup>ST</sup> EDI	0.01 mg/l		

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>71 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Nitrite as NO <sub>2</sub>	IS:3025(Part-34)1999 & APHA 21 <sup>ST</sup> EDI	0.001 mg/l
		Fluoride as F	Clause 23 of IS:3025/1964 & APHA 21 <sup>ST</sup> EDI (Spectrophotometer)(ISE)	0.1 mg/l 0.01 mg/l
		Zinc as Zn	IS:3025(Part-49)1999 & APHA 21 <sup>ST</sup> EDI (ICP –MS)	1µg/l
		Silver as Ag	Annx-J of IS:13428:2005 & APHA 21 <sup>ST</sup> EDI (ICP –MS)	5µg/l
		Aluminium as Al	IS 3025 (Part-55) 2003 & APHA 21 <sup>ST</sup> EDI (ICP –MS)	1µg/l
		Chloride as Cl	IS:3025(Part-32)1999 & APHA 21 <sup>ST</sup> EDI	0.1 mg/l
		Selenium as Se	IS 3025 (Part – 56)2003 & APHA 21 <sup>ST</sup> EDI	1µg/l
		Sulphate as SO <sub>4</sub>	IS:3025(Part-24) 2003 & APHA 21 <sup>ST</sup> EDI	0.5 mg/l
		Alkalinity as HCO <sub>3</sub>	IS:3025(Part-23)2003 & APHA 21 <sup>ST</sup> EDI	0.2 mg/l
		Total hardness as CaCO <sub>3</sub>	IS:3025(Part-21) 2006 & APHA 21 <sup>ST</sup> EDI	0.2 mg/l
		Calcium as Ca	IS:3025(Part-40) 2003 & APHA 21 <sup>ST</sup> EDI	0.1 mg/l
		Magnesium as Mg	IS:3025(Part-46) 1999 & APHA 21 <sup>ST</sup> EDI	0.05 mg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>72 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Sodium as Na	IS:3025(Part-45)1999 & APHA 21 <sup>ST</sup> EDI	0.1mg/l
		Residual free chlorine	IS:3025(Part-26)2003	0.1 mg/l
		Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	IS 3025 (Part 43) 2003	0.001mg/l
		Mineral Oil	IS:3025(Part-39) 1999	Absent / 0.01 mg/l
		Anionic surface active agents As MBAS	Annex-K of IS:13428/2005 & APHA 21 <sup>ST</sup> EDI	0.05 mg/l
		Mercury as Hg	IS:3025(Part-48)1999 & APHA 21 <sup>ST</sup> EDI(ICP –MS)	1µg/l
		Cadmium as Cd	IS:3025(Part-41)2003& APHA 21 <sup>ST</sup> EDI(ICP –MS)	1µg/l
		Arsenic as As	IS:3025(Part-37)1999 & APHA 21 <sup>ST</sup> EDI(ICP –MS)	1µg/l
		Cyanide as CN	IS:3025(Part-27)2003 & APHA 21 <sup>ST</sup> EDI (Spectrophotometer) (Ion Selective Electrode)	0.02 mg/l 0.01 mg/l
		Lead as Pb	IS:3025(Part-47)2003 & APHA 21 <sup>ST</sup> EDI, (ICP –MS)	1µg/l
		Chromium as Cr	Annex-J of IS:13428:2005 & APHA 21 <sup>ST</sup> EDI(ICP –MS)	1µg/l
		Nickel as Ni	Annex-L of IS:13428:2005 & APHA 21 <sup>ST</sup> EDI(ICP –MS)	1µg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>73 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Sulphide as H <sub>2</sub> S	IS:3025(Part-29) 2003 & APHA 21 <sup>ST</sup> EDI	0.04 mg/l
		Borate as B	Annex-H of IS:13428:2005 & APHA 21 <sup>ST</sup> EDI(ICP –MS)	5µg/l
		Antimony as Sb	Annex-G of IS:13428:2005 & APHA 21 <sup>ST</sup> EDI(ICP –MS)	1µg/l
		Ammonia as NH <sub>3</sub>	IS:3025(Part-34) 1999 & APHA 21 <sup>ST</sup> EDI	0.01 mg/l
		Oxidisability	IS:3025-1964	0.1 mg/l
		Total organic carbon	APHA 21 <sup>ST</sup> EDI	0.5 mg/l
		Acrylamide	EPA 8032A	0.1µg/l
		Epichlorohydrin	EPA 8260B	0.1µg/l
		Bromide	IS:3025 (Part-30)1999, APHA 21st Edi & EPA 317	10µg/l
		Iodide	IS:3025 (Part-33) 1999 APHA 21st Edi & EPA 317	10µg/l
		<b>Poly Chlorinate Biphenyl (PCB)</b>	EPA 3510C/EPA 8082	
		2,4,4'-Trichlorobiphenyl		0.05µg/l
		2,2',5,5'-Tetrachlorobiphenyl		0.05µg/l
		2,2',4,5,5'-Pentachlorobiphenyl		0.05µg/l
		2,2',3,4,4',5Hexachlorobiphenyl		0.05µg/l
		2,2',4,4',5,5'Hexachlorobiphenyl		0.05µg/l
		2,2',3,4,4',5,5'Heptachlorobiphenyl		0.05µg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>74 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		<b>Poly Nuclear Aromatic Hydrocarbons (PAH)</b>		
	Acenaphthene		EPA 3510C/ EPA 8100	0.05µg/l
	Acenaphthylene			0.05µg/l
	Anthracene			0.05µg/l
	Phenanthrene			0.05µg/l
	Benz(a) anthracene			0.05µg/l
	Chrysene			0.05µg/l
	Benzo(b) fluoranthene			0.05µg/l
	Benzo(k) fluoranthene			0.05µg/l
	Indeno(1,2,3 -cd) perylene			0.05µg/l
	Benzo(g,h,i) perylene			0.05µg/l
	Dibenzo(a,h) anthracene			0.05µg/l
	Fluoranthene			0.05µg/l
	Pyrene			0.05µg/l
	Fluorene			0.05µg/l
	Naphthalene			0.05µg/l
		<b>Pesticide Residue</b>		
	o,p-DDT		EPA 3510C	0.01 µg/l
	p,p-DDT			0.01µg/l
	o,p-DDE			0.01µg/l
	p,p-DDE			0.01µg/l
	o,p-DDD			0.01µg/l
	p,p-DDD			0.01µg/l
	α-HCH			0.01µg/l
	β-HCH			0.01µg/l
	γ-HCH(LINDANE)			0.01µg/l
	δ-HCH			0.01µg/l
	α-Endosulfan			0.01µg/l
	β-Endosulfan			0.01µg/l
	Endosulfan -Sulphate			0.01µg/l
	Monocrotophos			0.01µg/l
	Ethion			0.01µg/l
	Chlorpyrifos			0.01µg/l
	Phorate			0.01µg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>75 of 76</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Operation / Limits of Detection</b>
		Phorate -Sulphoxide	EPA 3510C	0.01µg/l
		Phorate Sulphone		0.01µg/l
		2,4-D		0.01µg/l
		Butachlor		0.01µg/l
		Isoproturon		0.01µg/l
		Alachlor		0.01µg/l
		Atrazine		0.01µg/l
		Parathion		0.01µg/l
		Methyl Parathion		0.01µg/l
		Methyl Paraoxon		0.01µg/l
		Malathion		0.01µg/l
		Malaoxon		0.01µg/l
		Aldrin		0.01µg/l
		Dieldrin		0.01µg/l
		Fenitrothion		0.01µg/l
		Carbaryl		0.01µg/l
		Aldicarb		0.01µg/l
		Carbofuran		0.01µg/l
		Dimethoate		0.01µg/l
		Phosalone		0.01µg/l
		Dichlorvos		0.01µg/l
		Propoxur		0.01µg/l
		Diazinon		0.01µg/l
		Fenthion		0.01µg/l
		Phosphomidon		0.01µg/l
		Cypermethrin		0.01µg/l

<b>Laboratory</b>	<b>SGS India Private Limited, Chennai</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>15.05.2008</b>
<b>Certificate Number</b>	<b>T-0118</b>	<b>Valid Until</b>	<b>14.05.2010</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>76 of 76</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
		Deltamethrin	EPA 3510C	0.01µg/l
		Fenvelerate		0.01µg/l
		Permethrin		0.01µg/l
		Simazine		0.01µg/l
		Captafol		0.01µg/l
		Acephate		0.01µg/l
		Dithiocarbamate		0.01µg/l
		Metalaxyl		0.01µg/l
		Fosetyl Al		0.01µg/l

~~-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-~~

**\*NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however does not fully cover the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428**.