


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

| | | |
|---|--|---|
|  <p>Accredited to ISO/IEC 17025:2005</p> | Royal Scientific Society | |
| | Issue No: 016 Issue date: 18 January 2011 | |
| | PO Box 1438 Al-Jubaiha 11941 Amman Jordan | Contact: Eng K.Majali Tel: + 962-6-5344701 Fax: + 962-6-5344806 E-Mail: kmajali@rss.jo Website: www.rss.jo |
| Testing performed by the Organisation at the locations specified below | | |

Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | Activity | Location code |
|--|---|----------------|
| Address PO Box 1438 Al-Jubaiha 11941 Amman Jordan | Local contact Dr Rafat Ahmad Tel: +962-6-5344701 Fax: + 962-6-5344806 Email: rafata@rss.jo Website: www.rss.jo | |
| | Metals - Mechanical tests Metals - Chemical tests Metals - Metallurgical Metals - Radiochemical Cement - Mechanical Tests Cement - Physical Tests Ceramic Floor and Wall Tiles - Mechanical Tests Ceramic Floor and Wall Tiles - Physical Tests Cigarettes - Physical Tests Textiles - Chemical Tests Textiles - Physical Tests Carpets - Physical Tests Food and Food Products - Chemical Tests Pesticides - Chemical Tests Gases - Chemical Tests Lubricating Oils (Engine Oils) - Chemical Tests Lubricating Oils (Engine Oils) - Physical Tests Cosmetics - Microbiological Tests Disinfectants - Microbiological Tests Food and Foodstuffs - Microbiological Tests Food and Foodstuffs - Microbiological Tests Water (potable) - Chemical and Microbiological Tests | RSS Testing |



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| | | | |
|---|--|---|--------|
| Address Environmental Monitoring and Research Central Unit PO Box 1438 Al-Jubaiha 11941 Amman Jordan | Local contact Eng. Fida'a Jibreel Tel: +962-6-5344701 Fax: + 962-6 -5344806 Email: fida@emarcu.gov.jo Website: www.rss.jo | Water (potable) - Chemical and Physical Tests | EMARCU |
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DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|--|--|---|----------------|
| Mechanical Laboratories | | | |
| METALS, ALLOYS and METAL PRODUCTS | <u>Chemical Tests</u> | | |
| Ferrous and non-ferrous alloys including: Cast Irons, carbon and stainless steels | Carbon and Sulphur content | Documented In-House Methods WI 314/3-03 and WI 314/3-04 using combustion techniques | RSS TESTING |
| | <u>Mechanical Tests</u> | | |
| Ferrous and non-ferrous alloys | Hardness: | | |
| | Brinell (2.5mm/187.5Kg) | BS EN ISO 6506-1:2005 | RSS TESTING |
| | Rockwell (HRC and HRB) | BS EN ISO 6508-1:2005 | |
| | Vickers (HV5, 10 and 30) | BS EN ISO 6507-1:2005 | RSS TESTING |
| | Tensile | BS EN ISO 6892-1:2009 Method B ASTM E8/E8M :09 ASTM A370 :10 | RSS TESTING |
| Reinforcing bar | Tensile | JS 441:2002 JS 442:1996 ASTM A370:10 | RSS TESTING |
| Ductile iron and steel pipes | Tensile | JS 137:2006 ISO 2531:2009 | RSS TESTING |
| | Flattening | BS EN 10255 :2004 BS EN ISO 8492:2004 JS 137:2006 | RSS TESTING |
| | Hydrostatic testing of pressurised vessels - Leakage detection | | |
| Steel pipes | | BS EN 10255:2004 JS 137:2006 | RSS TESTING |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) | Hydrostatic testing of pressurised vessels - Leakage detection (cont'd) | | |
| Fire extinguishers | | JS 150-3:2003 | RSS TESTING |
| Radiators | | JS 499:1997 | RSS TESTING |
| Valves | | BS EN 12266-1:2003 BS EN 12266-2:2002 JS 547:1988 JS 548:1994 | RSS TESTING |
| Water taps and mixers | | JS 528:1987 JS 529:1994 | RSS TESTING |
| | <u>Metallurgical Tests</u> | | |
| | Grain size | ASTM E 112-96(2004) | RSS TESTING |
| | Dipping test (Uniformity of Zn coating) | BS 1387:1985 (superseded, withdrawn) JS 137:2006 | RSS TESTING |
| | Mass of Zn coating) | ASTM A90/A90M-09 ASTM A390-2006 BS 443:1982(superseded, withdrawn) JS137:1990 (superseded, withdrawn) | RSS TESTING |
| ENVIRONMENTAL SAMPLES | <u>Radiochemical analysis</u> | | RSS TESTING |
| Materials of density range 0.74 g cm ³ to 1.7 g cm ³ including: Aqueous solutions, leachates, biota, ash, soils/sediments, geological materials, waters & foodstuffs. | Radioactivity Energy Range 46.0 keV to 2.7 MeV Activity Range 1.0 Bq/kg to 3.7 MBq/kg | Documented In-House Method WI342A/01-07 based on ASTM E181-10 and ISO 10703:2007 | |



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|--|--|--|---------------|
| Construction Materials laboratories CEMENT | <u>Mechanical Tests</u> | | |
| | Compressive strength of cubes and prisms <i>Loads 10 kN to 250 kN</i> | BS EN 196-1:2008 ASTM C109C109M-07 | RSS TESTING |
| | <u>Physical Tests</u> | | |
| | Air content | ASTM C185-08 | RSS TESTING |
| | Fineness (Blaine method) | ASTM C204-07 BS EN 196-6:1992 | RSS TESTING |
| | Initial and Final setting time | ASTM C191-08 BS EN 196-3:2005+A1 :2008 | RSS TESTING |
| | Soundness (Le Chatellier method) | BS EN 196-3:2005+A1:2008 | RSS TESTING |
| | Standard Consistency | ASTM C187-10 | RSS TESTING |
| | Normal Consistency | ASTM C187-10 | RSS TESTING |
| | Density of Hydraulic Cement | ASTM C188-09 | RSS TESTING |
| Autoclave Expansion of Portland Cement | ASTM C151-09 | RSS TESTING | |
| CERAMIC FLOOR and WALL TILES | <u>Mechanical Tests</u> | | |
| | Modulus of rupture | BS 6431-12:1993 inc AMD 7101 EN 100:1991 | RSS TESTING |
| | Resistance to deep abrasion of unglazed tiles | BS 6431-17:1983inc AMD 7103 EN 102:1991 ISO 10545-6 | RSS TESTING |



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|---------------------------------------|---|---|----------------|
| CERAMIC FLOOR and WALL TILES (cont'd) | <u>Mechanical Tests</u> (cont'd) | | |
| | Crazing resistance of glazed tiles | BS 6431-17:1993 inc AMD 7106 EN 105:1991 ISO 10545-11:1994 | RSS TESTING |
| | Resistance to surface abrasion | EN 154:1991 | RSS TESTING |
| | <u>Physical Tests</u> | | |
| | Determination of dimensions and surface quality | BS 6431-10:1984 inc AMD 7099 EN 98:1991 | RSS TESTING |
| | Determination of water absorption | BS 6431-11:1983 inc AMD 7100 EN 99:1991 ISO 10545-3:1995 | RSS TESTING |



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| Chemical Laboratories | | | |
| CIGARETTES | <u>Physical Tests</u> | | |
| | Carbon monoxide | ISO 8454:2007 Amd 1: 2009 | RSS TESTING |
| | Total and nicotine free dry particulate matter (tar) | ISO 4387:2000 Amd 1 :2008 ISO 10362-1 | RSS TESTING |
| | Nicotine | ISO 10315:2000 | RSS TESTING |
| | Moisture content | Documented In-House Method based on AOAC 966.02 | RSS TESTING |
| | Percentage ventilation | BS ISO 9512:2002 | RSS TESTING |
| | Pressure drop (filter rods) | ISO 6565:2002 | RSS TESTING |
| | Determination of Nominal Diameter | ISO 2971:1998 | RSS TESTING |
| TEXTILES | <u>Chemical Tests</u> | | |
| | Quantitative analysis of fibre mixtures | BS 4407:1988 Methods 2, 3, 4 and 7 | RSS TESTING |
| | <u>Physical Tests</u> | | |
| | Threads per unit length | Documented in-house method SOP 3/01/09-013 based on BS EN 1049-2:1994 and | RSS TESTING |
| | Mass per unit area | Documented in-house method SOP 3/01/09-014 based on ISO 3801:1977 | RSS TESTING |
| | Maximum force and elongation | Documented in-house method SOP 3/01/09-006 based on BS EN ISO 13934-1:1999 | RSS TESTING |



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| TEXTILES (cont'd) | <u>Physical Tests</u> (cont'd) | | |
| | Colour fastness to: | | |
| | Washing | ISO 105 Parts C10:2006 | RSS TESTING |
| | Rubbing | ISO 105:Part X12:2001 | RSS TESTING |
| | Perspiration | ISO 105 E04:2008 | RSS TESTING |
| Paper and Board | Water | ISO 105-EO1:1994 | RSS TESTING |
| | Mass | Documented in-house method SOP 3/01/09-017 based on ISO 536:1995 | RSS TESTING |
| | Moisture content | ISO287:2009 | RSS TESTING |
| | Tensile | Documented in-house method SOP 3/01/09-016 based on ISO 1924-2:2008 Section 9.2 | RSS TESTING |
| FOOD and FOOD PRODUCTS | Thickness | Documented in-house method SOP 3/01/09-015 based on ISO 534:2005 | RSS TESTING |
| | <u>Chemical Tests</u> | | |
| | nitrogen and Protein content using Kjeldahl | Documented in-house method SOP 3/01/01-006 based upon: AOAC 979.09:2005 Pearson's Chemical Analysis of Food 1991 | RSS TESTING |
| | Total Ash content in Foodstuff | Documented In-house Method SOP 3/01/01-009 based upon ISO and AOAC techniques | RSS TESTING |



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| FOOD and FOOD PRODUCTS (cont'd) | <u>Chemical Tests</u> (cont'd) | | |
| | Fat Content by Gerber Butyrometers | Documented in-house method SOP 3/01/01-014 based upon: ISO 2446:2008 ISO 488:2008 | RSS TESTING |
| | Fat Content by Van Gulik | Documented in-house method SOP 3/01/01-012 based upon: ISO 3432:2008(E) ISO 3433:2008 | RSS TESTING |
| | Fat Content by Soxhlet Extraction | Documented in-house method SOP 3/01/01-013 based upon: Pearson's Chemical Analysis of Food 1991 AOAC 963.15:2005 | RSS TESTING |
| | Moisture Content of Foodstuff | Documented In-house Method SOP 3/01/01-010 based upon ISO and AOAC techniques | RSS TESTING |
| Animal and vegetable fats | Sodium Chloride content in Foodstuff | Documented in-house method SOP 3/01/01-011 based upon: Pearson's Chemical Analysis of Food 1991 ISO 5943:2006 AOAC 971.27:2005 | RSS TESTING |
| | acid value and acidity | Documented in-house method SOP 3/01/01-004 based upon: AOAC 969.17:2005 ISO 660:2009 | RSS TESTING |
| | Moisture and Volatile Matter | Documented in-house method SOP 3/01/01-005 based upon: ISO 662:1998(E) | RSS TESTING |
| | Peroxide value | Documented in-house method SOP 3/01/01-001 based upon: ISO 3960:2001(E) AOAC 965.33:2005 | RSS TESTING |
| | Iodine value | Documented in-house method SOP 3/01/01-002 based upon: ISO 3961:2009(E) AOAC 920.159:2005 | RSS TESTING |



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| FOOD and FOOD PRODUCTS (cont'd) | <u>Chemical Tests</u> (cont'd) | | |
| Animal and vegetable fats (cont'd) | Refractive index | Documented in-house method SOP 3/01/01-003 based upon: ISO 6320:2000(E) ISO 1739:2006(E) | RSS TESTING |
| Olive oils | Composition & content of sterols | IOCC COI/T20/Doc No. 10 Rev1:2001 | RSS TESTING |
| | Composition & content of trans fatty acids | IOCC COI/T20/Doc No. 17 Rev1:2001 | RSS TESTING |
| | Insoluble impurities | ISO 663:2007 | RSS TESTING |
| | Specific extinction | IOCC COI/T20/Doc No. 19/ Rev 2:2008 | RSS TESTING |
| | Unsaponifiable matter | ISO 3596-1:2000 | RSS TESTING |
| Vegetable Oils | Stigmastadienes | IOCC COI/T20/Doc No. 11/Rev.2:2001 | RSS TESTING |
| | Erythrodiol and uvaol | IOCC COI/T20/Doc No. 16/Rev.1 :2001 IUPAC Method 20431 | RSS TESTING |
| | Fatty Acid profile | IOCC COI/T20/Doc No. 24:2001 AOCS Ch 2-91:1997 | RSS TESTING |



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| PESTICIDE FORMULATIONS | Active ingredients alphamethrin amitraz bioallethrin chlorpyrifos chlorothalonil lambda cyhalothrin cypermethrin deltamethrin dichlorvos diazinon dimethoate malathion metalaxyl methidathion permethrin piperonyl butoxide propoxus | Documented In-House Method 3/01/02-010 using gas chromatography, based on CIPAC Handbook | RSS TESTING |
| GASES | <u>Chemical Tests</u> | | |
| Medical and industrial gases | Impurities, carbon monoxide, carbon dioxide, water vapour, chlorine, hydrocarbons, phosphine, arsine, hydrogen sulphide, ammonia, nitrogen oxides | Documented In-House Method 3/01/03-006 using Dräger tubes based on Jordanian Standard JS 551 | RSS TESTING |
| Nitrogen and nitrous oxide | Purity | Documented In-House Method 3/01/03-004 using gas chromatography based on Jordanian Standard JS 552 | RSS TESTING |



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| PETROLEUM AND PETROLEUM PRODUCTS | <u>Chemical and Physical Tests</u> | | |
| Lubricating Oils (Engine Oils) | Kinematic Viscosity of Transparent and Opaque Liquids | ASTM D445-09 | RSS TESTING |
| | Apparent Viscosity of Engine Oils Between -5 and -35°C using Cold Cranking Simulator | ASTM D5293-10 | RSS TESTING |
| | Flash and Fire Points by Cleveland Open Cup Tester | ASTM D92-05a | RSS TESTING |
| | Pour Point of Petroleum Products | ASTM D97-09 | RSS TESTING |
| | Foaming Characteristics of Lubricating Oils | ASTM D892-06 | RSS TESTING |
| | Base Number of petroleum Products by Potentiometric PRSS Test using Hydrochloric Acid Titration | ASTM D2896-07a | RSS TESTING |
| | Distillation of Petroleum Products at Atmospheric Pressure | ASTM D86-10a | RSS TESTING |
| Lubricating Oils (Engine Oils) (cont'd) | Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter | ASTM D240-09 | RSS TESTING |
| | Ash from Petroleum Products | ASTM D482-07 | RSS TESTING |
| | Sulphur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry | ASTM D4294-10 | RSS TESTING |



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|---|--|---|--|
| PETROLEUM AND PETROLEUM PRODUCTS (cont'd) | <u>Chemical and Physical Tests</u> (cont'd) Determination of Water in Petroleum Products and Lubricating Oil Acid Number by Colour Indicator Titration Sulphated Ash from Lubricating Oils and Additives The Standard Method for Low- Temperature Viscosity of Lubricants | ASTM D6304-07 ASTM D974-08 ASTM D874-07 ASTM D 2983-09 | RSS TESTING RSS TESTING RSS TESTING RSS TESTING |



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|--|---|--|---------------|
| Environmental Laboratories COSMETICS | <u>Microbiological Tests</u> | | |
| | Total aerobic microbial count | United States Pharmacopoea USP 26:2003 | RSS TESTING |
| | Total combined moulds and yeast count | United States Pharmacopoea USP 26:2003 | RSS TESTING |
| | Detection of <i>pseudomonas aeruginosa</i> | United States Pharmacopoea USP 26:2003 | RSS TESTING |
| | Detection of <i>staphylococcus aureus</i> | United States Pharmacopoea USP 26:2003 | RSS TESTING |
| | Detection of <i>Escherichia coli</i> | United States Pharmacopoea USP 26:2003 | RSS TESTING |
| | Detection of <i>Salmonella spp</i> | United States Pharmacopoea USP 26:2003 | RSS TESTING |
| DISINFECTANTS | <u>Microbiological Tests</u> | | |
| | Rideal-Walker (R-W) Coefficient | BS 541:1985 | RSS TESTING |
| | Quantitative suspension test for evaluation of bacterial activity of chemical disinfectants and antiseptics used in domestic, food, industrial and institutional areas. | EN 1276:1997 | RSS TESTING |
| FOOD and FOODSTUFFS | <u>Microbiological Tests</u> | | |
| | Aerobic plate count | Food Agricultural Organisation Manual of food quality control 4 (Revision 1):1992 - Microbiological Analysis | RSS TESTING |
| | Detection of <i>Salmonella spp</i> | Food Agricultural Organisation Manual of food quality control 4 (Revision 1):1992 - Microbiological Analysis | RSS TESTING |



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| FOOD and FOODSTUFFS (cont'd) | <u>Microbiological Tests</u> (cont'd) | | |
| | Enumeration of <i>Staphylococcus aureus</i> | Food Agricultural Organisation Manual of food quality control 4 (Revision 1):1992 - Microbiological Analysis | RSS TESTING |
| | Enumeration of total coliform, fecal coliform and E.coli in food (MPN) and EC-MUG | Food Agricultural Organisation Manual of food quality control 4 (Revision 1):1992 - Microbiological Analysis | RSS TESTING |
| | Enumeration of Clostridium perfringens | Food Agricultural Organisation Manual of food quality control 4 (Revision 1):1992 - Microbiological Analysis | RSS TESTING |
| | Detection of E.coli 0157 | Food Agricultural Organisation Manual of food quality control 4 (Revision 1):1992 - Microbiological Analysis | RSS TESTING |
| WATER - Potable and Raw (surface) | Yeast and mould count | Food Agricultural Organisation Manual of food quality control 4 (Revision 1):1992 - Microbiological Analysis | RSS TESTING |
| | Inorganic Testing: | | |
| | Bromide | Documented In-House Method SM4110 using ion chromatography techniques | RSS TESTING |
| | Bicarbonate | Documented In-House Method SM2320 using titrimetric techniques | RSS TESTING |
| | Carbon dioxide | Documented In-House Method SM4500 using titrimetric techniques | RSS TESTING |
| | Calcium | Documented In-House Method SM3500 using titrimetric techniques | RSS TESTING |



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| WATER - Potable and Raw (surface) | Inorganic Testing (cont'd) | | |
| | Chlorine | Documented In-House Method SM4500 using colorimetric techniques | RSS TESTING |
| | Chloride | Documented In-House Method SM4500 using titrimetric techniques | RSS TESTING |
| | Colour | Documented In-House Method SM2120 using turbidimetry techniques | RSS TESTING |
| | Cyanide | Documented In-House Method SM4500 using ion selective electrode techniques | RSS TESTING |
| | Fluoride | Documented In-House Method SM4500 using ion selective electrode techniques | RSS TESTING |
| | Magnesium | Documented In-House Method SM3500 using titrimetric techniques | RSS TESTING |
| | Nitrate | Documented In-House Method SM4110 using ion chromatography techniques | RSS TESTING |
| | Nitrite | Documented In-House Method SM4500 using spectrophotometry techniques | RSS TESTING |
| | pH | Documented In-House Method SM4500 using electrometric techniques | RSS TESTING |
| | Potassium | Documented In-House Method SM3111B using atomic absorption spectrophotometer | RSS TESTING |
| Sodium | Documented In-House Method SM3111B using atomic absorption spectrophotometer | RSS TESTING | |



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| WATER - Potable and Raw (surface) | Inorganic Testing (cont'd) | | |
| | Sulfate | Documented In-House Method SM4110 using ion chromatography techniques | RSS TESTING |
| | Total dissolved solids | Documented In-House Method SM2540 using gravimetric techniques | RSS TESTING |
| | Turbidity | Documented In-House Method SM2130 using turbidimetry techniques | RSS TESTING |
| | Metals: Ag, Al, As, Cd, Co, Cr, Cu, Fe, Hg, Li, Mn, Mo, Ni, Pb, Sb, Se, Sn, V, Zn | Documented In-House Method SM3111, SM3112 & SM3114 using atomic absorption techniques | RSS TESTING |
| | <u>Microbiological Tests</u> | | |
| | Enumeration of total coliforms, faecal coliforms and <i>Escherichia.coli</i> | Methods based on Standard methods for the examination of water & wastewater, 2004 | RSS TESTING |
| Enumeration of <i>Psuedomonas aeruginosa</i> | Methods based on Standard methods for the examination of water & wastewater, 2004 | RSS TESTING | |
| Enumeration & detection of fungi (moulds) by Membrane filtration | Methods based on Standard methods for the examination of water & wastewater, 2004 | RSS TESTING | |
| WATER (Surface) | <u>Chemical and Physical Tests</u> | | |
| | <u>Temperature</u> | Platinum Resistance method based on YANACO operation manual chapter 1:Yanaco Automatic Water quality Monitoring | EMARCU |



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| WATER (Surface) | <u>Chemical and Physical Tests</u> | | |
| | <u>Electrical Conductivity</u> | Alternate Current Double Pole method based on YANACO operation manual chapter 1:Yanaco Automatic Water quality Monitoring | EMARCU |
| | pH | Glass Electrode method based on YANACO operation manual chapter 1:Yanaco Automatic Water quality Monitoring | EMARCU |
| | Turbidity | Surface Iregular Reflection method based on YANACO operation manual chapter 1:Yanaco Automatic Water quality Monitoring | EMARCU |
| | Chemical Oxygen Demand (COD) | Automatic Spectrophotometer method based on YANACO operation manual chapter 2:Yanaco Automatic UV Spectrometer | EMARCU |
| | Total Nitrogen | Automatic Total Phosphorus – Total Nitrogen Analyzer Method based on YANACO operation manual chapter 3:Yanaco Automatic Total Phosphorus – Total Nitrogen Analyzer | EMARCU |
| Total Phosphorus | Automatic Total Phosphorus – Total Nitrogen Analyzer Method based on YANACO operation manual chapter 3:Yanaco Automatic Total Phosphorus – Total Nitrogen Analyzer | EMARCU | |
| END | | | |