# Accreditation Scope

Element Materials Technology ME Limited, NAL 058  
Testing Laboratory (ISO/IEC 17025:2005)  
Umm Al Naar (Sas Al Nakhl), Abu Dhabi, UAE

**Issue Date:** 25-12-2018  
**Expiry Date:** 24-12-2021  
**Issue No.:** 05

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<tr>
<th>Testing Field</th>
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</table>
| Mechanical & Physical | Carbon Steel Ribbed Bars for the Reinforcement of Concrete | Bend  
8mm to 40mm diameter  
0 to 180 degree bend | BS 4449:1988 & ASTM A615/A615M:2018†† | P |
| | Carbon Steel Ribbed Bars for the Reinforcement of Concrete | Rebend  
8mm to 40mm diameter  
0 to 180 degree bend | BS 4449:1997 (W)  
| | Carbon Steel Ribbed Bars for the Reinforcement of Concrete | Tensile  
Forces up to 1000 kN | BS 4449:1997 (W)  
| | Carbon Steel Ribbed Bars for the Reinforcement of Concrete | Rib Measurement (Projected Rib Area Calculation)  
up to 40mm diameter | BS 4449:1997 (W) and BS 4449:2005+A3:2016 | |
| Chemical | Plain carbon, low alloy and stainless steels | Elemental analysis  
C = 0.005 to 3.70%  
S = 0.002 to 0.200%  
P = 0.005 to 0.220%  
Mn = 0.01 to 19.5%  
Si = 0.01 to 5.5%  
Cr = 0.01 to 32.0%  
Ni = 0.01 to 36.0%  
Mo = 0.01 to 6.20%  
Fe = 0.01 to 99.8%  
Nb = 0.01 to 3.5%  
Al = 0.01 to 1.55%  
V = 0.01 to 9.5%  
Ti = 0.005 to 2.05%  
Cu = 0.01 to 6.0%  
N = 0.005 to 0.90%  
Co = 0.01 to 18.0% | In-house procedure EMT-M-OP-CH-AUH-MD101 Issue 9, Oct 2018 | P |
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<tr>
<td>Environmental Stack emissions</td>
<td>Total Particulate Matter - Sampling and monitoring 0-1000 mg/m³</td>
<td>In-house method-EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 5:2017</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Stack emissions</td>
<td>PAHs - Sampling and monitoring 0-1 ug/m³</td>
<td>Stack emissions PAHs - Sampling and monitoring In-house method-EMT-M-OP-SA-MD003 Issue 3 Oct 2018</td>
<td></td>
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<tr>
<td>Stack emissions</td>
<td>Heavy metals- As, Be, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Mo, Se, V, Zn- Sampling and monitoring 0-5 mg/m³</td>
<td>In-house method-EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 29:2017</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stack emissions</td>
<td>Hydrogen Chloride- Sampling and monitoring 0-1000 mg/m³</td>
<td>In-house method-EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 26A:2017</td>
<td></td>
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<td></td>
<td>Hydrogen Sulphide-Sampling and monitoring 0-740 mg/m³</td>
<td>In-house method--EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 11:2017</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Hydrogen cyanide-Sampling and monitoring 0-10 mg/m³</td>
<td>In-house method--EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA OTM 29, March 2011</td>
<td></td>
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<td></td>
<td></td>
<td>Oxides of Nitrogen (as NO2)- Sampling and monitoring 0-2500 ppm</td>
<td>In-house method-EMT-M-OP-SA-MD001 Issue 5 Oct 2018 based on US EPA Method 7E:2017</td>
</tr>
</tbody>
</table>

**P & S**

ENAS Program Manager: ZK

ACF 11-22; rev 3, Page 4 of 6

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| Environmental | Stack emissions           | VOCs - Sampling and monitoring  
|               |                           | 0-10,000ppm                                                       | In-house method                           
|               |                           | Sulphur Dioxide, Carbon monoxide, Oxides of Nitrogen (as NO2), Oxygen CO - 0 - 10000 ppm  
|               |                           | - Sampling and monitoring  
|               |                           | SO2 - 0 - 5000ppm  
|               |                           | Nox - 0 - 3000 ppm  
|               | Ambient Air Quality/Ambient Environment | Carbon monoxide, Nitric oxide, Oxides of Nitrogen(NO/NO2), Sulphur Dioxide, Ozone  
|               |                           | - Sampling and monitoring  
|               |                           | SO2 - 0 - 200 ppb  
|               |                           | CO - 0 - 5 ppm  
|               |                           | NOx - 0 - 2 ppm  
|               |                           | O3 - 0 - 200 ppb                                                  | In-house method                           
|               |                           | - Sampling and monitoring |

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<td>Environmental</td>
<td>Ambient Air Quality / Ambient Atmosphere</td>
<td>TSP, PM1, PM2.5, PM10- Sampling and monitoring 0-6000 ug/m²</td>
<td>In-house method-EMT-M-OP-AA-MD003 Issue 4 Oct 2018, Using an Osiris Analyzer</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>Ambient Environment/Workplace</td>
<td>Noise - Sampling and monitoring</td>
<td>In-house method-EMT-M-OP-NO-MD001 Issue 5 Oct 2018, Using Sound level meter</td>
<td></td>
</tr>
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</table>

END