BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11 | Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR | **Frog Mark/ID: XTREME 500W 10** | Shift: A

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
1-L	DAE-109-043		10	9.914	78.54	0.606	42804	545	52622	670	1.23	9.5	14.0	22.0	OK	OK	OK
S-1	DAE-109-043		10	9.931	78.54	0.608	42804	545	52229	665	1.22	9.0	15.0	20.0	OK	OK	OK
S-2	DAE-109-043		10	9.898	78.54	0.604	41234	525	51444	655	1.25	10.0	15.5	23.0	OK	OK	OK
S-3	DAE-109-043		10	9.906	78.54	0.605	41626	530	51444	655	1.24	10.0	16.0	22.0	OK	OK	OK
2-L	DAE-109-043		10	9.931	78.54	0.608	42804	545	52229	665	1.22	10.0	15.0	21.0	OK	OK	OK
S-1	DAE-109-043		10	9.939	78.54	0.609	43197	550	52229	665	1.21	9.5	14.5	20.0	OK	OK	OK
S-2	DAE-109-043		10	9.906	78.54	0.605	42412	540	50658	645	1.19	10.0	15.0	22.0	OK	OK	OK
S-3	DAE-109-043		10	9.914	78.54	0.606	42412	540	51444	655	1.21	10.0	15.0	21.0	OK	OK	OK
3-L	DAE-109-043	0.34-0.39	10	9.939	78.54	0.609	43197	550	52622	670	1.22	9.5	14.5	20.5	OK	OK	OK
S-1	DAE-109-043		10	9.939	78.54	0.609	42804	545	50658	645	1.18	9.0	14.0	21.0	OK	OK	OK
S-2	DAE-109-043		10	9.914	78.54	0.606	43197	550	52229	665	1.21	9.0	14.0	20.0	OK	OK	OK
S-3	DAE-109-043		10	9.922	78.54	0.607	42804	545	51444	655	1.20	9.0	14.5	21.0	OK	OK	OK
4-L	DAE-109-043		10	9.939	78.54	0.609	42412	540	49873	635	1.18	9.5	14.0	21.0	OK	OK	OK
S-1	DAE-109-043		10	9.947	78.54	0.610	43197	550	51836	660	1.20	9.0	14.5	20.0	OK	OK	OK
S-2	DAE-109-043		10	9.922	78.54	0.607	41626	530	49088	625	1.18	10.0	14.0	22.0	OK	OK	OK
S-3	DAE-109-043		10	9.931	78.54	0.608	42804	545	50658	645	1.18	10.0	15.0	20.0	OK	OK	OK
5-L	DAE-109-044		10	9.947	78.54	0.610	42804	545	51836	660	1.21	10.0	14.0	21.0	OK	OK	OK
S-1	DAE-109-044		10	9.947	78.54	0.610	42412	540	51836	660	1.22	10.0	14.0	22.0	OK	OK	OK
S-2	DAE-109-044		10	9.931	78.54	0.608	42804	545	52622	670	1.23	9.5	14.5	21.0	OK	OK	OK
S-3	DAE-109-044		10	9.939	78.54	0.609	43197	550	52622	670	1.22	10.0	15.0	20.5	OK	OK	OK
6-L	DAE-109-044		10	9.947	78.54	0.610	42412	540	50658	645	1.19	10.5	14.0	21.0	OK	OK	OK
S-1	DAE-109-044		10	9.955	78.54	0.611	42804	545	51836	660	1.21	9.5	14.0	21.0	OK	OK	OK
S-2	DAE-109-044		10	9.931	78.54	0.608	42804	545	50658	645	1.18	9.0	14.0	20.0	OK	OK	OK
S-3	DAE-109-044		10	9.939	78.54	0.609	43197	550	52229	665	1.21	9.0	14.0	20.0	OK	OK	OK
7-L	DAE-109-044	0.35-0.38	10	9.947	78.54	0.610	41626	530	49873	635	1.20	10.0	15.0	22.0	OK	OK	OK
S-1	DAE-109-044		10	9.955	78.54	0.611	41234	525	49873	635	1.21	10.5	16.0	22.0	OK	OK	OK
S-2	DAE-109-044		10	9.931	78.54	0.608	42019	535	50266	640	1.20	10.0	16.0	22.5	OK	OK	OK
S-3	DAE-109-044		10	9.947	78.54	0.610	43197	550	52229	665	1.21	9.5	14.0	21.0	OK	OK	OK
8-L	DAE-109-044		10	9.955	78.54	0.611	42804	545	52622	670	1.23	9.0	14.0	21.0	OK	OK	OK
S-1	DAE-109-044		10	9.963	78.54	0.612	42804	545	53015	675	1.24	9.5	14.0	21.0	OK	OK	OK
S-2	DAE-109-044		10	9.939	78.54	0.609	42412	540	51836	660	1.22	10.0	15.0	22.0	OK	OK	OK
S-3	DAE-109-044		10	9.947	78.54	0.610	42804	545	51836	660	1.21	10.0	14.0	21.0	OK	OK	OK
9-L	DAE-109-045		10	9.963	78.54	0.612	42412	540	52229	665	1.23	10.0	14.5	21.5	OK	OK	OK
S-1	DAE-109-045		10	9.963	78.54	0.612	42804	545	52229	665	1.22	9.5	14.0	21.0	OK	OK	OK
S-2	DAE-109-045	0.35-0.38	10	9.939	78.54	0.609	42412	540	52229	665	1.23	9.0	14.5	21.0	OK	OK	OK
S-3	DAE-109-045		10	9.947	78.54	0.610	42412	540	51444	655	1.21	9.0	14.0	21.0	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

L = Left, S-1 = Right, S-2 = Before right & S-3 = After left

1 kg/cm2 = 14.223 PSI, 1 kg/cm2 = 0.09809 MPa, 1 MPa = 145 PSI & 1 N/mm2 = 1 MPa

Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Manager-QA

BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11 | Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR | **Frog Mark/ID: XTREME 500W 10** | Shift: A

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
10-L	DAE-109-045		10	9.963	78.54	0.612	42804	545	51444	655	1.20	10.0	15.0	21.0	OK	OK	OK
S-1	DAE-109-045		10	9.955	78.54	0.611	42019	535	49480	630	1.18	9.5	14.5	20.5	OK	OK	OK
S-2	DAE-109-045		10	9.931	78.54	0.608	41234	525	49873	635	1.21	9.0	14.0	21.0	OK	OK	OK
S-3	DAE-109-045		10	9.939	78.54	0.609	41234	525	49088	625	1.19	9.0	14.0	20.0	OK	OK	OK
11-L	DAE-109-045		10	9.971	78.54	0.613	42804	545	52229	665	1.22	9.0	14.5	21.0	OK	OK	OK
S-1	DAE-109-045		10	9.963	78.54	0.612	42804	545	52622	670	1.23	9.5	14.0	21.0	OK	OK	OK
S-2	DAE-109-045	0.35-0.38	10	9.931	78.54	0.608	41626	530	50658	645	1.22	10.0	15.0	21.0	OK	OK	OK
S-3	DAE-109-045		10	9.947	78.54	0.610	42804	545	52622	670	1.23	9.5	14.5	20.5	OK	OK	OK
12-L	DAE-109-045		10	9.890	78.54	0.603	42804	545	52622	670	1.23	9.0	14.0	21.0	OK	OK	OK
S-1	DAE-109-045		10	9.906	78.54	0.605	43197	550	53407	680	1.24	9.0	14.0	20.0	OK	OK	OK
S-2	DAE-109-045		10	9.882	78.54	0.602	41234	525	50658	645	1.23	9.0	14.5	21.0	OK	OK	OK
S-3	DAE-109-045		10	9.898	78.54	0.604	42804	545	52229	665	1.22	9.5	14.0	21.0	OK	OK	OK
13-L	DAE-109-046		10	9.898	78.54	0.604	42412	540	51051	650	1.20	9.0	14.5	20.0	OK	OK	OK
S-1	DAE-109-046		10	9.914	78.54	0.606	43197	550	51444	655	1.19	9.0	14.0	20.0	OK	OK	OK
S-2	DAE-109-046		10	9.882	78.54	0.602	40841	520	48695	620	1.19	9.0	14.5	21.0	OK	OK	OK
S-3	DAE-109-046		10	9.906	78.54	0.605	41626	530	49873	635	1.20	9.5	14.0	21.0	OK	OK	OK
14-L	DAE-109-046		10	9.906	78.54	0.605	42804	545	52229	665	1.22	10.0	15.0	21.0	OK	OK	OK
S-1	DAE-109-046		10	9.906	78.54	0.605	41626	530	49873	635	1.20	9.5	14.5	20.5	OK	OK	OK
S-2	DAE-109-046		10	9.914	78.54	0.606	42019	535	51836	660	1.23	9.0	14.0	21.0	OK	OK	OK
S-3	DAE-109-046		10	9.890	78.54	0.603	43197	550	51051	650	1.18	9.0	14.0	20.0	OK	OK	OK
15-L	DAE-109-046		10	9.906	78.54	0.605	42412	540	52229	665	1.23	9.0	14.5	21.0	OK	OK	OK
S-1	DAE-109-046	0.35-0.38	10	9.914	78.54	0.606	43197	550	50266	640	1.16	9.5	14.0	21.0	OK	OK	OK
S-2	DAE-109-046		10	9.922	78.54	0.607	42804	545	50266	640	1.17	9.0	14.5	21.0	OK	OK	OK
S-3	DAE-109-046		10	9.898	78.54	0.604	42412	540	50266	640	1.19	9.5	14.0	21.0	OK	OK	OK
16-L	DAE-109-046		10	9.914	78.54	0.606	42412	540	51444	655	1.21	10.0	15.0	21.0	OK	OK	OK
S-1	DAE-109-046		10	9.922	78.54	0.607	42804	545	50658	645	1.18	9.5	14.5	20.5	OK	OK	OK
S-2	DAE-109-046		10	9.931	78.54	0.608	42019	535	50266	640	1.20	9.0	14.0	21.0	OK	OK	OK
S-3	DAE-109-046		10	9.914	78.54	0.606	42412	540	50266	640	1.19	9.0	14.0	20.0	OK	OK	OK
17-L	DAE-109-047		10	9.922	78.54	0.607	42019	535	52229	665	1.24	9.0	14.5	21.0	OK	OK	OK
S-1	DAE-109-047		10	9.931	78.54	0.608	43197	550	51444	655	1.19	9.5	14.0	21.0	OK	OK	OK
S-2	DAE-109-047		10	9.931	78.54	0.608	42019	535	50266	640	1.20	9.0	14.5	20.0	OK	OK	OK
S-3	DAE-109-047		10	9.914	78.54	0.606	42019	535	50658	645	1.21	9.0	14.0	20.0	OK	OK	OK
18-L	DAE-109-047		10	9.931	78.54	0.608	42019	535	50658	645	1.21	9.0	14.5	21.0	OK	OK	OK
S-1	DAE-109-047	0.34-0.40	10	9.914	78.54	0.606	42412	540	52229	665	1.23	9.5	14.0	21.0	OK	OK	OK
S-2	DAE-109-047		10	9.906	78.54	0.605	43197	550	51836	660	1.20	10.0	15.0	21.0	OK	OK	OK
S-3	DAE-109-047		10	9.922	78.54	0.607	43197	550	52622	670	1.22	9.5	14.5	20.5	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

L = Left, S-1 = Right, S-2 = Before right & S-3 = After left

1 kg/cm2 = 14.223 PSI, 1 kg/cm2 = 0.09809 MPa, 1 MPa = 145 PSI & 1 N/mm2 = 1 MPa

Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Manager-QA

BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11 | Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR | **Frog Mark/ID: XTREME 500W 10** | Shift: A

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
19-L	DAE-109-047		10	9.882	78.54	0.602	41234	525	49480	630	1.20	9.5	14.0	21.0	OK	OK	OK
S-1	DAE-109-047		10	9.865	78.54	0.600	41234	525	48695	620	1.18	10.0	15.0	21.0	OK	OK	OK
S-2	DAE-109-047		10	9.873	78.54	0.601	41234	525	48695	620	1.18	9.5	14.5	20.5	OK	OK	OK
S-3	DAE-109-047		10	9.898	78.54	0.604	42804	545	51444	655	1.20	9.0	14.0	21.0	OK	OK	OK
20-L	DAE-109-047	0.34-0.40	10	9.898	78.54	0.604	43197	550	51444	655	1.19	9.5	14.0	21.0	OK	OK	OK
S-1	DAE-109-047		10	9.882	78.54	0.602	42804	545	51836	660	1.21	10.0	15.0	21.0	OK	OK	OK
S-2	DAE-109-047		10	9.882	78.54	0.602	41626	530	50266	640	1.21	9.5	14.0	21.0	OK	OK	OK
S-3	DAE-109-047		10	9.906	78.54	0.605	41626	530	49873	635	1.20	10.0	15.0	21.0	OK	OK	OK
21-L	DAE-109-048		10	9.906	78.54	0.605	42804	545	51836	660	1.21	9.5	14.5	20.5	OK	OK	OK
S-1	DAE-109-048		10	9.890	78.54	0.603	42019	535	51444	655	1.22	9.0	14.0	21.0	OK	OK	OK
S-2	DAE-109-048		10	9.882	78.54	0.602	40841	520	49480	630	1.21	9.0	14.0	20.0	OK	OK	OK
S-3	DAE-109-048		10	9.906	78.54	0.605	41234	525	49873	635	1.21	9.0	14.0	20.0	OK	OK	OK
22-L	DAE-109-048		10	9.914	78.54	0.606	42804	545	51836	660	1.21	9.0	14.0	20.0	OK	OK	OK
S-1	DAE-109-048		10	9.890	78.54	0.603	42019	535	51051	650	1.21	10.0	15.0	22.0	OK	OK	OK
S-2	DAE-109-048		10	9.890	78.54	0.603	41234	525	49873	635	1.21	10.5	16.0	22.0	OK	OK	OK
S-3	DAE-109-048		10	9.906	78.54	0.605	41626	530	49873	635	1.20	10.0	16.0	22.5	OK	OK	OK
23-L	DAE-109-048	0.35-0.37	10	9.914	78.54	0.606	42412	540	51051	650	1.20	9.5	14.0	21.0	OK	OK	OK
S-1	DAE-109-048		10	9.898	78.54	0.604	43197	550	52622	670	1.22	9.0	14.0	21.0	OK	OK	OK
S-2	DAE-109-048		10	9.898	78.54	0.604	42019	535	50266	640	1.20	9.5	14.0	21.0	OK	OK	OK
S-3	DAE-109-048		10	9.906	78.54	0.605	41626	530	50266	640	1.21	9.0	14.0	21.0	OK	OK	OK
24-L	DAE-109-048		10	9.922	78.54	0.607	43197	550	52229	665	1.21	9.0	14.0	20.0	OK	OK	OK
S-1	DAE-109-048		10	9.906	78.54	0.605	42412	540	51444	655	1.21	9.0	14.5	21.0	OK	OK	OK
S-2	DAE-109-048		10	9.898	78.54	0.604	42412	540	51836	660	1.22	9.5	14.0	21.0	OK	OK	OK
S-3	DAE-109-048		10	9.906	78.54	0.605	42019	535	51444	655	1.22	9.0	14.5	21.0	OK	OK	OK
25-L	DAE-109-049		10	9.931	78.54	0.608	42412	540	52229	665	1.23	9.5	14.0	21.0	OK	OK	OK
S-1	DAE-109-049		10	9.906	78.54	0.605	41626	530	50658	645	1.22	10.0	15.0	21.0	OK	OK	OK
S-2	DAE-109-049		10	9.906	78.54	0.605	41626	530	50266	640	1.21	9.5	14.5	20.5	OK	OK	OK
S-3	DAE-109-049		10	9.914	78.54	0.606	41626	530	50266	640	1.21	9.0	14.0	21.0	OK	OK	OK
26-L	DAE-109-049		10	9.939	78.54	0.609	43197	550	52229	665	1.21	9.0	14.0	20.0	OK	OK	OK
S-1	DAE-109-049		10	9.914	78.54	0.606	42804	545	51444	655	1.20	9.0	14.5	21.0	OK	OK	OK
S-2	DAE-109-049		10	9.906	78.54	0.605	42019	535	51051	650	1.21	9.5	14.0	21.0	OK	OK	OK
S-3	DAE-109-049	0.35-0.38	10	9.914	78.54	0.606	42412	540	51051	650	1.20	9.0	14.5	20.0	OK	OK	OK
27-L	DAE-109-049		10	9.939	78.54	0.609	42019	535	50266	640	1.20	9.0	14.0	20.0	OK	OK	OK
S-1	DAE-109-049		10	9.922	78.54	0.607	42804	545	51444	655	1.20	9.0	14.5	21.0	OK	OK	OK
S-2	DAE-109-049		10	9.914	78.54	0.606	42412	540	51051	650	1.20	9.5	14.0	21.0	OK	OK	OK
S-3	DAE-109-049		10	9.914	78.54	0.606	41626	530	50658	645	1.22	10.0	15.0	21.0	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

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Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Manager-QA

BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11

Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR

Frog Mark/ID: XTREME 500W 10

Shift: A+B

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
28-L	DAE-109-049		10	9.947	78.54	0.610	42019	535	50266	640	1.20	10.0	15.5	22.5	OK	OK	OK
S-1	DAE-109-049	0.35-0.38	10	9.922	78.54	0.607	41626	530	49873	635	1.20	10.5	16.0	23.0	OK	OK	OK
S-2	DAE-109-049		10	9.922	78.54	0.607	42804	545	51444	655	1.20	9.5	14.5	21.5	OK	OK	OK
S-3	DAE-109-049		10	9.914	78.54	0.606	41234	525	49873	635	1.21	10.5	16.5	23.5	OK	OK	OK
29-L	DAE-109-050		10	9.955	78.54	0.611	43197	550	51836	660	1.20	9.0	14.0	21.0	OK	OK	OK
S-1	DAE-109-050		10	9.939	78.54	0.609	42412	540	51444	655	1.21	10.0	15.0	21.5	OK	OK	OK
S-2	DAE-109-050		10	9.931	78.54	0.608	42019	535	51051	650	1.21	10.0	15.5	22.5	OK	OK	OK
S-3	DAE-109-050		10	9.922	78.54	0.607	41626	530	50266	640	1.21	10.5	15.5	23.0	OK	OK	OK
30-L	DAE-109-050		10	9.947	78.54	0.610	43197	550	51836	660	1.20	9.0	14.5	20.5	OK	OK	OK
S-1	DAE-109-050		10	9.963	78.54	0.612	41626	530	50658	645	1.22	10.0	16.0	23.0	OK	OK	OK
S-2	DAE-109-050		10	9.931	78.54	0.608	42412	540	51444	655	1.21	9.5	15.0	22.0	OK	OK	OK
S-3	DAE-109-050		10	9.931	78.54	0.608	41234	525	49873	635	1.21	10.5	16.5	23.5	OK	OK	OK
31-L	DAE-109-050	0.34-0.38	10	9.955	78.54	0.611	42804	545	51836	660	1.21	9.5	14.5	21.5	OK	OK	OK
S-1	DAE-109-050		10	9.971	78.54	0.613	42019	535	51051	650	1.21	10.0	15.5	22.5	OK	OK	OK
S-2	DAE-109-050		10	9.939	78.54	0.609	41234	525	49873	635	1.21	10.5	16.5	23.5	OK	OK	OK
S-3	DAE-109-050		10	9.947	78.54	0.610	41626	530	49873	635	1.20	10.0	16.0	23.0	OK	OK	OK
32-L	DAE-109-050		10	9.963	78.54	0.612	42019	535	51051	650	1.21	10.0	15.5	22.5	OK	OK	OK
S-1	DAE-109-050		10	9.971	78.54	0.613	42804	545	51836	660	1.21	9.5	14.5	21.0	OK	OK	OK
S-2	DAE-109-050		10	9.947	78.54	0.610	42019	535	50266	640	1.20	9.5	15.5	22.0	OK	OK	OK
S-3	DAE-109-050		10	9.931	78.54	0.608	41626	530	50266	640	1.21	10.0	15.5	23.0	OK	OK	OK
33-L	DAE-109-051		10	9.963	78.54	0.612	42412	540	51836	660	1.22	10.0	15.0	21.5	OK	OK	OK
S-1	DAE-109-051		10	9.980	78.54	0.614	41626	530	50658	645	1.22	10.5	16.0	23.0	OK	OK	OK
S-2	DAE-109-051		10	9.939	78.54	0.609	41626	530	50266	640	1.21	10.0	15.5	22.5	OK	OK	OK
S-3	DAE-109-051		10	9.939	78.54	0.609	41626	530	50266	640	1.21	10.0	16.0	22.5	OK	OK	OK
34-L	DAE-109-051		10	9.963	78.54	0.612	42804	545	52229	665	1.22	9.5	14.5	21.0	OK	OK	OK
S-1	DAE-109-051		10	9.980	78.54	0.614	42412	540	51444	655	1.21	9.5	15.0	21.5	OK	OK	OK
S-2	DAE-109-051		10	9.947	78.54	0.610	42019	535	51051	650	1.21	10.0	15.5	22.5	OK	OK	OK
S-3	DAE-109-051		10	9.955	78.54	0.611	42412	540	51051	650	1.20	9.5	14.5	22.0	OK	OK	OK
35-L	DAE-109-051		10	9.939	78.54	0.609	42019	535	50266	640	1.20	9.5	15.5	22.5	OK	OK	OK
S-1	DAE-109-051	0.35-0.38	10	9.963	78.54	0.612	42804	545	51444	655	1.20	9.0	14.5	21.5	OK	OK	OK
S-2	DAE-109-051		10	9.931	78.54	0.608	42412	540	51051	650	1.20	10.0	15.0	22.0	OK	OK	OK
S-3	DAE-109-051		10	9.922	78.54	0.607	41626	530	50658	645	1.22	10.0	15.5	23.0	OK	OK	OK
36-L	DAE-109-051		10	9.947	78.54	0.610	42019	535	50658	645	1.21	10.0	15.5	22.5	OK	OK	OK
S-1	DAE-109-051		10	9.988	78.54	0.615	41626	530	49873	635	1.20	10.5	16.0	22.5	OK	OK	OK
S-2	DAE-109-051		10	9.955	78.54	0.611	42804	545	51836	660	1.21	9.5	14.5	21.0	OK	OK	OK
S-3	DAE-109-051		10	9.963	78.54	0.612	41234	525	49873	635	1.21	10.5	16.5	24.0	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

L = Left, S-1 = Right, S-2 = Before right & S-3 = After left

1 kg/cm2 = 14.223 PSI, 1 kg/cm2 = 0.09809 MPa, 1 MPa = 145 PSI & 1 N/mm2 = 1 MPa

Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Manager-QA

BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11

Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR

Frog Mark/ID: XTREME 500W 10

Shift: B

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
37-L	DAE-109-052		10	9.898	78.54	0.604	42412	540	51051	650	1.20	9.5	15.0	22.0	OK	OK	OK
S-1	DAE-109-052		10	9.906	78.54	0.605	43197	550	51836	660	1.20	9.5	14.5	20.5	OK	OK	OK
S-2	DAE-109-052		10	9.865	78.54	0.600	43197	550	52229	665	1.21	9.5	14.0	21.0	OK	OK	OK
S-3	DAE-109-052		10	9.849	78.54	0.598	42804	545	51836	660	1.21	9.5	14.5	21.5	OK	OK	OK
38-L	DAE-109-052		10	9.890	78.54	0.603	42804	545	51836	660	1.21	10.0	14.5	21.0	OK	OK	OK
S-1	DAE-109-052		10	9.898	78.54	0.604	42412	540	51051	650	1.20	10.0	15.0	21.5	OK	OK	OK
S-2	DAE-109-052		10	9.865	78.54	0.600	42019	535	51051	650	1.21	10.0	15.5	22.5	OK	OK	OK
S-3	DAE-109-052		10	9.849	78.54	0.598	41234	525	50266	640	1.22	10.5	16.5	24.0	OK	OK	OK
39-L	DAE-109-052	0.34-0.37	10	9.890	78.54	0.603	42019	535	50658	645	1.21	10.0	15.5	22.5	OK	OK	OK
S-1	DAE-109-052		10	9.906	78.54	0.605	41234	525	49480	630	1.20	10.5	16.0	23.5	OK	OK	OK
S-2	DAE-109-052		10	9.857	78.54	0.599	41234	525	49480	630	1.20	11.0	16.5	23.5	OK	OK	OK
S-3	DAE-109-052		10	9.857	78.54	0.599	41234	525	49088	625	1.19	10.5	16.5	23.5	OK	OK	OK
40-L	DAE-109-052		10	9.898	78.54	0.604	42019	535	50658	645	1.21	10.0	15.5	22.5	OK	OK	OK
S-1	DAE-109-052		10	9.914	78.54	0.606	42412	540	51836	660	1.22	9.5	15.0	22.0	OK	OK	OK
S-2	DAE-109-052		10	9.865	78.54	0.600	42412	540	51836	660	1.22	10.0	14.5	21.5	OK	OK	OK
S-3	DAE-109-052		10	9.873	78.54	0.601	42019	535	50266	640	1.20	10.0	15.5	22.5	OK	OK	OK
41-L	DAE-109-053		10	9.890	78.54	0.603	42412	540	52229	665	1.23	9.5	15.0	21.5	OK	OK	OK
S-1	DAE-109-053		10	9.898	78.54	0.604	42019	535	50658	645	1.21	9.5	15.5	22.5	OK	OK	OK
S-2	DAE-109-053		10	9.873	78.54	0.601	42412	540	51051	650	1.20	10.0	15.0	22.0	OK	OK	OK
S-3	DAE-109-053		10	9.873	78.54	0.601	42412	540	52229	665	1.23	9.5	15.0	22.0	OK	OK	OK
42-L	DAE-109-053		10	9.898	78.54	0.604	42412	540	51836	660	1.22	9.5	14.5	21.5	OK	OK	OK
S-1	DAE-109-053		10	9.906	78.54	0.605	42412	540	51836	660	1.22	10.0	15.0	22.5	OK	OK	OK
S-2	DAE-109-053		10	9.882	78.54	0.602	42019	535	51444	655	1.22	10.5	15.5	22.0	OK	OK	OK
S-3	DAE-109-053		10	9.882	78.54	0.602	42019	535	49873	635	1.19	10.0	15.5	20.5	OK	OK	OK
43-L	DAE-109-053	0.35-0.38	10	9.906	78.54	0.605	43197	550	51836	660	1.20	9.0	14.5	22.0	OK	OK	OK
S-1	DAE-109-053		10	9.914	78.54	0.606	42412	540	51444	655	1.21	9.5	14.5	21.5	OK	OK	OK
S-2	DAE-109-053		10	9.890	78.54	0.603	42412	540	51051	650	1.20	10.0	15.0	22.0	OK	OK	OK
S-3	DAE-109-053		10	9.882	78.54	0.602	42019	535	51444	655	1.22	10.0	15.5	22.5	OK	OK	OK
44-L	DAE-109-053		10	9.906	78.54	0.605	42019	535	51836	660	1.23	10.0	15.5	22.5	OK	OK	OK
S-1	DAE-109-053		10	9.914	78.54	0.606	41626	530	50658	645	1.22	10.5	16.0	23.0	OK	OK	OK
S-2	DAE-109-053		10	9.890	78.54	0.603	41626	530	50658	645	1.22	10.0	16.0	22.5	OK	OK	OK
S-3	DAE-109-053		10	9.882	78.54	0.602	43197	550	52229	665	1.21	9.5	14.0	21.0	OK	OK	OK
45-L	DAE-109-054		10	9.898	78.54	0.604	42019	535	51051	650	1.21	9.5	15.5	22.5	OK	OK	OK
S-1	DAE-109-054		10	9.906	78.54	0.605	41234	525	50658	645	1.23	10.5	16.5	23.5	OK	OK	OK
S-2	DAE-109-054	0.35-0.39	10	9.882	78.54	0.602	41626	530	50658	645	1.22	10.0	16.0	23.0	OK	OK	OK
S-3	DAE-109-054		10	9.873	78.54	0.601	42804	545	52229	665	1.22	9.5	14.5	21.5	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

L = Left, S-1 = Right, S-2 = Before right & S-3 = After left

1 kg/cm2 = 14.223 PSI, 1 kg/cm2 = 0.09809 MPa, 1 MPa = 145 PSI & 1 N/mm2 = 1 MPa

Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Manager-QA

BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11 | Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR | **Frog Mark/ID: XTREME 500W 10** | Shift: B

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
46-L	DAE-109-054		10	9.906	78.54	0.605	42804	545	51444	655	1.20	9.5	14.5	21.0	OK	OK	OK
S-1	DAE-109-054		10	9.914	78.54	0.606	43197	550	51836	660	1.20	9.0	14.0	20.5	OK	OK	OK
S-2	DAE-109-054		10	9.890	78.54	0.603	41626	530	50266	640	1.21	10.0	15.5	22.5	OK	OK	OK
S-3	DAE-109-054		10	9.882	78.54	0.602	41626	530	50266	640	1.21	10.0	16.0	23.0	OK	OK	OK
47-L	DAE-109-054		10	9.906	78.54	0.605	43197	550	52229	665	1.21	9.5	14.5	21.0	OK	OK	OK
S-1	DAE-109-054		10	9.922	78.54	0.607	41626	530	50266	640	1.21	10.0	16.0	22.5	OK	OK	OK
S-2	DAE-109-054	0.35-0.39	10	9.898	78.54	0.604	42019	535	50658	645	1.21	9.5	15.5	22.5	OK	OK	OK
S-3	DAE-109-054		10	9.890	78.54	0.603	42804	545	51836	660	1.21	9.5	14.5	21.5	OK	OK	OK
48-L	DAE-109-054		10	9.906	78.54	0.605	42804	545	52229	665	1.22	9.5	14.5	21.0	OK	OK	OK
S-1	DAE-109-054		10	9.922	78.54	0.607	42412	540	51836	660	1.22	10.0	15.0	22.0	OK	OK	OK
S-2	DAE-109-054		10	9.898	78.54	0.604	42804	545	52229	665	1.22	9.5	14.5	21.5	OK	OK	OK
S-3	DAE-109-054		10	9.890	78.54	0.603	42019	535	50658	645	1.21	10.0	15.5	22.5	OK	OK	OK
49-L	DAE-109-055		10	9.914	78.54	0.606	42804	545	51836	660	1.21	9.5	15.0	21.0	OK	OK	OK
S-1	DAE-109-055		10	9.922	78.54	0.607	42412	540	51836	660	1.22	9.5	15.0	21.5	OK	OK	OK
S-2	DAE-109-055		10	9.898	78.54	0.604	41626	530	51051	650	1.23	10.0	15.5	23.0	OK	OK	OK
S-3	DAE-109-055		10	9.890	78.54	0.603	41626	530	50658	645	1.22	10.5	16.0	22.5	OK	OK	OK
50-L	DAE-109-055		10	9.922	78.54	0.607	42412	540	51444	655	1.21	10.0	14.5	21.5	OK	OK	OK
S-1	DAE-109-055		10	9.931	78.54	0.608	42019	535	50266	640	1.20	10.0	15.5	22.5	OK	OK	OK
S-2	DAE-109-055		10	9.898	78.54	0.604	42019	535	50266	640	1.20	9.5	15.5	22.5	OK	OK	OK
S-3	DAE-109-055		10	9.906	78.54	0.605	41626	530	50266	640	1.21	10.0	16.0	23.0	OK	OK	OK
51-L	DAE-109-055	0.34-0.37	10	9.931	78.54	0.608	42019	535	51444	655	1.22	10.0	15.5	22.5	OK	OK	OK
S-1	DAE-109-055		10	9.939	78.54	0.609	41626	530	50658	645	1.22	10.0	16.0	23.0	OK	OK	OK
S-2	DAE-109-055		10	9.898	78.54	0.604	41626	530	50658	645	1.22	10.5	15.5	23.0	OK	OK	OK
S-3	DAE-109-055		10	9.914	78.54	0.606	42804	545	51836	660	1.21	9.5	14.5	21.5	OK	OK	OK
52-L	DAE-109-055		10	9.922	78.54	0.607	42019	535	50658	645	1.21	10.0	15.5	22.5	OK	OK	OK
S-1	DAE-109-055		10	9.931	78.54	0.608	42019	535	51444	655	1.22	10.5	16.5	23.5	OK	OK	OK
S-2	DAE-109-055		10	9.898	78.54	0.604	42019	535	51836	660	1.23	10.0	16.0	23.0	OK	OK	OK
S-3	DAE-109-055		10	9.882	78.54	0.602	42412	540	49873	635	1.18	9.5	14.5	21.5	OK	OK	OK
53-L	DAE-109-056		10	9.882	78.54	0.602	42019	535	51836	660	1.23	10.0	16.0	23.0	OK	OK	OK
S-1	DAE-109-056		10	9.906	78.54	0.605	42019	535	50658	645	1.21	10.0	16.0	22.0	OK	OK	OK
S-2	DAE-109-056		10	9.865	78.54	0.600	41234	525	51444	655	1.25	10.0	15.5	23.0	OK	OK	OK
S-3	DAE-109-056		10	9.849	78.54	0.598	41234	525	50658	645	1.23	9.5	15.0	23.5	OK	OK	OK
54-L	DAE-109-056	0.35-0.37	10	9.890	78.54	0.603	41234	525	51051	650	1.24	9.5	16.0	24.0	OK	OK	OK
S-1	DAE-109-056		10	9.898	78.54	0.604	42804	545	50658	645	1.18	9.5	15.0	23.0	OK	OK	OK
S-2	DAE-109-056		10	9.865	78.54	0.600	42412	540	50658	645	1.19	10.0	15.5	20.0	OK	OK	OK
S-3	DAE-109-056		10	9.849	78.54	0.598	42019	535	50658	645	1.21	10.0	15.0	21.0	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

L = Left, S-1 = Right, S-2 = Before right & S-3 = After left

1 kg/cm2 = 14.223 PSI, 1 kg/cm2 = 0.09809 MPa, 1 MPa = 145 PSI & 1 N/mm2 = 1 MPa

Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Manager-QA

BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11 | Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR | **Frog Mark/ID: XTREME 500W 10** | Shift: C

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
55-L	DAE-109-056		10	9.890	78.54	0.603	42804	545	51836	660	1.21	10.5	15.5	22.0	OK	OK	OK
S-1	DAE-109-056		10	9.906	78.54	0.605	42804	545	51836	660	1.21	10.0	15.5	22.5	OK	OK	OK
S-2	DAE-109-056		10	9.857	78.54	0.599	42019	535	51051	650	1.21	10.0	16.0	23.0	OK	OK	OK
S-3	DAE-109-056	0.35-0.37	10	9.857	78.54	0.599	42412	540	51051	650	1.20	10.0	16.0	22.0	OK	OK	OK
56-L	DAE-109-056		10	9.898	78.54	0.604	43197	550	52229	665	1.21	10.0	15.5	23.0	OK	OK	OK
S-1	DAE-109-056		10	9.914	78.54	0.606	42412	540	51444	655	1.21	9.5	15.0	23.5	OK	OK	OK
S-2	DAE-109-056		10	9.865	78.54	0.600	43197	550	52229	665	1.21	10.5	15.5	22.0	OK	OK	OK
S-3	DAE-109-056		10	9.873	78.54	0.601	42804	545	51444	655	1.20	10.0	15.5	22.5	OK	OK	OK
57-L	DAE-109-057		10	9.890	78.54	0.603	43197	550	52229	665	1.21	10.0	16.0	23.0	OK	OK	OK
S-1	DAE-109-057		10	9.898	78.54	0.604	42412	540	51444	655	1.21	10.5	15.5	22.0	OK	OK	OK
S-2	DAE-109-057		10	9.873	78.54	0.601	42412	540	51836	660	1.22	10.0	15.5	22.5	OK	OK	OK
S-3	DAE-109-057		10	9.873	78.54	0.601	42804	545	52229	665	1.22	10.0	16.0	23.0	OK	OK	OK
58-L	DAE-109-057		10	9.898	78.54	0.604	41626	530	50658	645	1.22	10.0	16.0	22.0	OK	OK	OK
S-1	DAE-109-057		10	9.906	78.54	0.605	42804	545	51836	660	1.21	10.0	15.5	23.0	OK	OK	OK
S-2	DAE-109-057		10	9.882	78.54	0.602	42412	540	51051	650	1.20	10.5	15.5	22.0	OK	OK	OK
S-3	DAE-109-057		10	9.882	78.54	0.602	42412	540	51051	650	1.20	10.0	15.5	22.5	OK	OK	OK
59L	DAE-109-057		10	9.906	78.54	0.605	42019	535	51444	655	1.22	10.0	16.0	23.0	OK	OK	OK
S-1	DAE-109-057	0.34-0.37	10	9.914	78.54	0.606	42019	535	51836	660	1.23	10.0	16.0	22.0	OK	OK	OK
S-2	DAE-109-057		10	9.890	78.54	0.603	41234	525	49873	635	1.21	10.0	15.5	23.0	OK	OK	OK
S-3	DAE-109-057		10	9.955	78.54	0.611	42019	535	51836	660	1.23	9.5	15.0	23.5	OK	OK	OK
60L	DAE-109-057		10	9.971	78.54	0.613	42019	535	50658	645	1.21	9.5	16.0	24.0	OK	OK	OK
S-1	DAE-109-057		10	9.939	78.54	0.609	42412	540	51444	655	1.21	9.5	15.0	23.0	OK	OK	OK
S-2	DAE-109-057		10	9.947	78.54	0.610	42019	535	50658	645	1.21	10.0	15.5	20.0	OK	OK	OK
S-3	DAE-109-057		10	9.963	78.54	0.612	42019	535	51051	650	1.21	10.0	15.0	21.0	OK	OK	OK
61L	DAE-109-058		10	9.971	78.54	0.613	41234	525	50658	645	1.23	10.5	16.0	20.5	OK	OK	OK
S-1	DAE-109-058		10	9.947	78.54	0.610	41234	525	50658	645	1.23	9.5	14.0	22.0	OK	OK	OK
S-2	DAE-109-058		10	9.914	78.54	0.606	41234	525	50658	645	1.23	9.5	14.0	22.0	OK	OK	OK
S-3	DAE-109-058		10	9.906	78.54	0.605	42804	545	52229	665	1.22	10.0	15.5	23.0	OK	OK	OK
62-L	DAE-109-058		10	9.947	78.54	0.610	42412	540	51444	655	1.21	9.5	14.5	22.0	OK	OK	OK
S-1	DAE-109-058		10	9.931	78.54	0.608	42019	535	49873	635	1.19	9.5	15.0	22.0	OK	OK	OK
S-2	DAE-109-058		10	9.914	78.54	0.606	42804	545	51051	650	1.19	10.0	15.0	21.5	OK	OK	OK
S-3	DAE-109-058	0.33-0.39	10	9.906	78.54	0.605	43197	550	51836	660	1.20	10.0	15.5	22.5	OK	OK	OK
63-L	DAE-109-058		10	9.947	78.54	0.610	42804	545	51444	655	1.20	9.5	14.0	21.5	OK	OK	OK
S-1	DAE-109-058		10	9.931	78.54	0.608	42019	535	50658	645	1.21	9.0	14.5	21.0	OK	OK	OK
S-2	DAE-109-058		10	9.922	78.54	0.607	41626	530	51051	650	1.23	10.0	15.0	21.5	OK	OK	OK
S-3	DAE-109-058		10	9.914	78.54	0.606	42804	545	51836	660	1.21	10.0	15.0	22.0	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

L = Left, S-1 = Right, S-2 = Before right & S-3 = After left

1 kg/cm2 = 14.223 PSI, 1 kg/cm2 = 0.09809 MPa, 1 MPa = 145 PSI & 1 N/mm2 = 1 MPa

Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Manager-QA

BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11

Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR

Frog Mark/ID: XTREME 500W 10

Shift: C

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
64-L	DAE-109-058		10	9.890	78.54	0.603	42412	540	50658	645	1.19	9.5	14.5	21.5	OK	OK	OK
S-1	DAE-109-058		10	9.882	78.54	0.602	42019	535	51444	655	1.22	9.5	15.0	22.0	OK	OK	OK
S-2	DAE-109-058	0.33-0.39	10	9.906	78.54	0.605	40841	520	50266	640	1.23	9.0	14.5	21.5	OK	OK	OK
S-3	DAE-109-058		10	9.914	78.54	0.606	41626	530	50658	645	1.22	10.5	15.5	22.5	OK	OK	OK
65-L	DAE-109-059		10	9.890	78.54	0.603	42804	545	51836	660	1.21	10.0	16.0	23.0	OK	OK	OK
S-1	DAE-109-059		10	9.890	78.54	0.603	41626	530	50266	640	1.21	9.5	15.0	21.5	OK	OK	OK
S-2	DAE-109-059		10	9.906	78.54	0.605	42019	535	50658	645	1.21	10.0	15.0	22.5	OK	OK	OK
S-3	DAE-109-059		10	9.914	78.54	0.606	42412	540	51444	655	1.21	9.5	14.5	21.0	OK	OK	OK
66-L	DAE-109-059		10	9.898	78.54	0.604	43197	550	52622	670	1.22	10.0	14.5	21.5	OK	OK	OK
S-1	DAE-109-059		10	9.898	78.54	0.604	42019	535	50266	640	1.20	9.5	14.0	20.5	OK	OK	OK
S-2	DAE-109-059		10	9.955	78.54	0.611	42019	535	50658	645	1.21	10.0	16.0	23.0	OK	OK	OK
S-3	DAE-109-059		10	9.939	78.54	0.609	42412	540	51444	655	1.21	9.5	15.0	21.5	OK	OK	OK
67-L	DAE-109-059	0.33-0.37	10	9.931	78.54	0.608	42412	540	51051	650	1.20	9.5	15.0	21.5	OK	OK	OK
S-1	DAE-109-059		10	9.922	78.54	0.607	40841	520	49873	635	1.22	9.5	14.5	21.5	OK	OK	OK
S-2	DAE-109-059		10	9.947	78.54	0.610	40841	520	49873	635	1.22	9.5	15.0	21.0	OK	OK	OK
S-3	DAE-109-059		10	9.963	78.54	0.612	41626	530	50266	640	1.21	9.5	14.5	21.0	OK	OK	OK
68-L	DAE-109-059		10	9.931	78.54	0.608	42804	545	51836	660	1.21	9.5	14.5	22.0	OK	OK	OK
S-1	DAE-109-059		10	9.931	78.54	0.608	42804	545	52622	670	1.23	10.0	15.0	21.5	OK	OK	OK
S-2	DAE-109-059		10	9.955	78.54	0.611	43197	550	51836	660	1.20	9.5	14.5	22.0	OK	OK	OK
S-3	DAE-109-059		10	9.971	78.54	0.613	43197	550	51444	655	1.19	9.0	14.0	20.5	OK	OK	OK
69-L	DAE-109-060		10	9.939	78.54	0.609	42804	545	53407	680	1.25	10.5	16.5	23.5	OK	OK	OK
S-1	DAE-109-060		10	9.947	78.54	0.610	42804	545	53015	675	1.24	10.5	16.5	23.5	OK	OK	OK
S-2	DAE-109-060		10	9.931	78.54	0.608	42412	540	52622	670	1.24	10.0	16.0	22.5	OK	OK	OK
S-3	DAE-109-060		10	9.931	78.54	0.608	43197	550	52622	670	1.22	10.5	16.5	24.0	OK	OK	OK
70-L	DAE-109-060		10	9.955	78.54	0.611	42804	545	51836	660	1.21	10.5	17.0	23.5	OK	OK	OK
S-1	DAE-109-060		10	9.971	78.54	0.613	43197	550	52229	665	1.21	11.0	16.0	24.0	OK	OK	OK
S-2	DAE-109-060		10	9.939	78.54	0.609	42804	545	51444	655	1.20	10.5	16.5	23.0	OK	OK	OK
S-3	DAE-109-060		10	9.947	78.54	0.610	42804	545	51836	660	1.21	11.0	16.5	23.5	OK	OK	OK
71-L	DAE-109-060	0.34-0.36	10	9.963	78.54	0.612	42804	545	51836	660	1.21	9.5	15.0	22.0	OK	OK	OK
S-1	DAE-109-060		10	9.971	78.54	0.613	42412	540	51051	650	1.20	10.5	15.5	22.5	OK	OK	OK
S-2	DAE-109-060		10	9.947	78.54	0.610	42412	540	51051	650	1.20	11.0	16.0	23.5	OK	OK	OK
S-3	DAE-109-060		10	9.939	78.54	0.609	42019	535	51444	655	1.22	10.0	15.5	21.5	OK	OK	OK
72-L	DAE-109-060		10	9.931	78.54	0.608	42804	545	52622	670	1.23	11.0	16.5	24.0	OK	OK	OK
S-1	DAE-109-060		10	9.922	78.54	0.607	43197	550	52229	665	1.21	10.5	16.5	24.0	OK	OK	OK
S-2	DAE-109-060		10	9.939	78.54	0.609	42804	545	52229	665	1.22	9.5	15.0	22.0	OK	OK	OK
S-3	DAE-109-060		10	9.931	78.54	0.608	42412	540	51836	660	1.22	10.0	15.5	23.0	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

L = Left, S-1 = Right, S-2 = Before right & S-3 = After left

1 kg/cm2 = 14.223 PSI, 1 kg/cm2 = 0.09809 MPa, 1 MPa = 145 PSI & 1 N/mm2 = 1 MPa

Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Manager-QA

BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11 | Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR | **Frog Mark/ID: XTREME 500W 10** | Shift: C

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
73-L	DAE-109-061		10	9.906	78.54	0.605	42804	545	51444	655	1.20	9.5	14.5	21.5	OK	OK	OK
S-1	DAE-109-061		10	9.890	78.54	0.603	42412	540	51051	650	1.20	9.5	14.5	21.0	OK	OK	OK
S-2	DAE-109-061		10	9.898	78.54	0.604	42804	545	51444	655	1.20	9.5	15.0	21.5	OK	OK	OK
S-3	DAE-109-061		10	9.947	78.54	0.610	42019	535	51051	650	1.21	10.0	14.5	21.0	OK	OK	OK
74-L	DAE-109-061		10	9.914	78.54	0.606	42019	535	51836	660	1.23	10.5	15.5	23.0	OK	OK	OK
S-1	DAE-109-061		10	9.890	78.54	0.603	42804	545	51836	660	1.21	9.5	15.0	22.0	OK	OK	OK
S-2	DAE-109-061		10	9.898	78.54	0.604	42019	535	51051	650	1.21	10.0	15.0	22.0	OK	OK	OK
S-3	DAE-109-061		10	9.939	78.54	0.609	43197	550	52622	670	1.22	10.0	15.0	21.5	OK	OK	OK
75-L	DAE-109-061	0.35-0.35	10	9.906	78.54	0.605	42804	545	52229	665	1.22	10.5	16.0	23.0	OK	OK	OK
S-1	DAE-109-061		10	9.890	78.54	0.603	43197	550	52229	665	1.21	10.0	15.0	21.5	OK	OK	OK
S-2	DAE-109-061		10	9.882	78.54	0.602	41234	525	50658	645	1.23	10.5	16.5	24.0	OK	OK	OK
S-3	DAE-109-061		10	9.939	78.54	0.609	42412	540	51836	660	1.22	10.5	16.5	23.5	OK	OK	OK
76-L	DAE-109-061		10	9.906	78.54	0.605	42804	545	53407	680	1.25	9.5	14.5	22.0	OK	OK	OK
S-1	DAE-109-061		10	9.898	78.54	0.604	42804	545	52622	670	1.23	9.5	14.5	21.5	OK	OK	OK
S-2	DAE-109-061		10	9.882	78.54	0.602	42804	545	52622	670	1.23	10.0	15.0	21.5	OK	OK	OK
S-3	DAE-109-061		10	9.947	78.54	0.610	43197	550	53015	675	1.23	9.5	14.0	20.5	OK	OK	OK
77-L	DAE-109-062		10	9.914	78.54	0.606	42804	545	52622	670	1.23	10.5	15.5	23.0	OK	OK	OK
S-1	DAE-109-062		10	9.906	78.54	0.605	42804	545	52622	670	1.23	10.5	14.5	21.5	OK	OK	OK
S-2	DAE-109-062		10	9.890	78.54	0.603	43197	550	53015	675	1.23	11.0	16.0	23.0	OK	OK	OK
S-3	DAE-109-062		10	9.931	78.54	0.608	43197	550	53407	680	1.24	10.5	15.0	22.0	OK	OK	OK
78-L	DAE-109-062		10	9.922	78.54	0.607	41234	525	49873	635	1.21	9.5	14.5	21.5	OK	OK	OK
S-1	DAE-109-062		10	9.963	78.54	0.612	41234	525	49873	635	1.21	10.0	15.0	21.0	OK	OK	OK
S-2	DAE-109-062		10	9.939	78.54	0.609	41626	530	50266	640	1.21	9.5	15.5	22.5	OK	OK	OK
S-3	DAE-109-062		10	9.906	78.54	0.605	41234	525	49873	635	1.21	10.0	15.0	21.5	OK	OK	OK
79-L	DAE-109-062		10	9.931	78.54	0.608	41234	525	49873	635	1.21	9.5	14.5	21.5	OK	OK	OK
S-1	DAE-109-062	0.35-0.36	10	9.963	78.54	0.612	40841	520	49088	625	1.20	10.5	15.5	22.5	OK	OK	OK
S-2	DAE-109-062		10	9.947	78.54	0.610	41626	530	49873	635	1.20	10.5	16.0	23.0	OK	OK	OK
S-3	DAE-109-062		10	9.906	78.54	0.605	41234	525	49480	630	1.20	10.0	14.5	21.0	OK	OK	OK
80-L	DAE-109-062		10	9.898	78.54	0.604	42412	540	50266	640	1.19	9.5	14.5	21.5	OK	OK	OK
S-1	DAE-109-062		10	9.906	78.54	0.605	41626	530	49873	635	1.20	9.5	15.0	22.0	OK	OK	OK
S-2	DAE-109-062		10	9.931	78.54	0.608	41234	525	49873	635	1.21	10.5	17.0	23.5	OK	OK	OK
S-3	DAE-109-062		10	9.906	78.54	0.605	42412	540	50658	645	1.19	10.0	15.0	22.0	OK	OK	OK
81-L	DAE-109-063		10	9.906	78.54	0.605	40841	520	49480	630	1.21	9.5	15.0	21.5	OK	OK	OK
S-1	DAE-109-063		10	9.914	78.54	0.606	41234	525	49480	630	1.20	9.5	14.5	21.5	OK	OK	OK
S-2	DAE-109-063	0.35-0.38	10	9.939	78.54	0.609	42412	540	50658	645	1.19	10.5	16.5	24.0	OK	OK	OK
S-3	DAE-109-063		10	9.914	78.54	0.606	41626	530	49873	635	1.20	9.5	14.5	21.5	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

L = Left, S-1 = Right, S-2 = Before right & S-3 = After left

1 kg/cm2 = 14.223 PSI, 1 kg/cm2 = 0.09809 MPa, 1 MPa = 145 PSI & 1 N/mm2 = 1 MPa

Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Manager-QA

BSRM Steels Limited, Chittagong

Quality Assurance Department (QA)

Production Date: 18.06.11 | Testing date: 18.06.11

TENSION, BEND & RE-BEND TEST OF DEFORMED M.S. BAR | **Frog Mark/ID: XTREME 500W 10** | Shift: C

Sl. No.	Common Heat No.	Carbon Equivalent	Nominal Diameter D (mm)	Actual Diameter (mm)	Nominal Area Under Test (mm^2)	Unit Weight (Kg/m)	Yield or Proof Load (N)	Yield or Proof Strength R_{eH} (MPa)	Ultimate Load (N)	Ultimate Tensile Strength R_m (MPa)	T/Y Ratio	% Total Elongation at Maximum Force A_{gt} GL:200mm	% Elongation after Fracture A (Gauge Length: 200 mm)	% Elongation after Fracture A (Gauge Length: 5D)	Bend Test 3D	Re-bend Test	Quality
82-L	DAE-109-063	0.35-0.38	10	9.931	78.54	0.608	42804	545	52229	665	1.22	11.0	17.0	23.5	OK	OK	OK
S-1	DAE-109-063		10	9.922	78.54	0.607	43197	550	52229	665	1.21	10.0	15.0	22.0	OK	OK	OK
S-2	DAE-109-063		10	9.906	78.54	0.605	42804	545	51836	660	1.21	10.5	15.5	22.5	OK	OK	OK
S-3	DAE-109-063		10	9.890	78.54	0.603	42804	545	52229	665	1.22	10.0	15.5	23.0	OK	OK	OK
83-L	DAE-109-063		10	9.882	78.54	0.602	41626	530	50266	640	1.21	9.5	14.5	21.5	OK	OK	OK
S-1	DAE-109-063		10	9.939	78.54	0.609	42804	545	51444	655	1.20	10.0	15.0	21.0	OK	OK	OK
S-2	DAE-109-063		10	9.906	78.54	0.605	42412	540	50266	640	1.19	10.0	16.0	23.0	OK	OK	OK
S-3	DAE-109-063		10	9.898	78.54	0.604	42412	540	50266	640	1.19	10.0	15.0	22.0	OK	OK	OK

Strength is based on nominal cross sectional area (Test Condition: Pressure=746 mmHg & Temp.=23 deg C)

L = Left, S-1 = Right, S-2 = Before right & S-3 = After left

1 kg/cm2 = 14.223 PSI, 1 kg/cm2 = 0.09809 MPa, 1 MPa = 145 PSI & 1 N/mm2 = 1 MPa

Note: Total bundle serial no.= 282672-283198 & Total bundle =527

Conforming bundle serial no.= 282672-283198 & Total bundle =527

Officer-QA

Manager-QA