

CERTIFICATE

**Quality Assurance System
for Material Manufacturer
acc. to Pressure Equipment Directive 97/23/EC**

Certificate no.: 07-202-1409 WZ-1348/15

**Name and address
of manufacturer:**

**Goradia Special Steels Ltd.
Survey No. 35/5, Village Niphan
Savroli Kharpada Road, Khopoli – 410 203
Dist. Raigad, Maharashtra, India**

This is to certify that the manufacturer has implemented and applies a QA System.
This QA System has been subjected to a specific assessment for material acc. to Directive 97/23/EC, annex I, sec. 4.3 with regard to the materials mentioned within the scope of approval.

Approved:

**QA System acc. to AD2000-Merkblatt W0
and EN 764-5, sec. 4.2**

Audit report no.:

811 263 0737

Scope of approval:

**Ingots, Continuously Cast Billets, Rolled Bars, Forged
Bars in various grades of steel incl. Carbon Steel, Alloy
Steels, Austenitic Stainless Steel & Duplex Stainless
Steel**

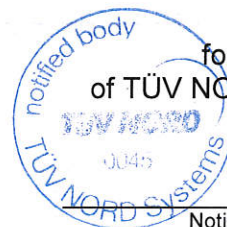
Details of the scope are mentioned in the annex of the
certificate AD2000-Merkblatt W0.

Production site:

**Survey No. 35/5, Village-Niphan, Savroli Kharpada Road,
Khopoli – 410 203, Dist. Raigad, Maharashtra, India**

The manufacturer disposes of the essential procedures and equipments as well as the required qualified personnel to ensure quality of manufacturing and testing the materials and products mentioned in the scope of approval.

Essen, 25.08.2015



**Notified Body
for Pressure Equipment
of TÜV NORD Systems GmbH & Co. KG**


Niekamp

Notified Body, registration no. 0045

Remark of validity:

Valid until August 2018

TÜV NORD Systems GmbH & Co. KG
Notifizierte Stelle für Druckgeräte
(Kennnummer 0045)
Große Bahnstraße 31
D-22525 Hamburg/Germany

Tel. +49-(0) 201-825-2722
Fax +49-(0) 201-825-2858
e-mail: dniekamp@tuev-nord.de

CERTIFICATE

The TÜV NORD Systems GmbH & Co. KG

certifies that the company

**Goradia Special Steels Ltd.
Survey No. 35/5, Village Niphan
Savroli Kharpada Road, Khopoli , 410 203
Dist. Raigad, Maharashtra, India**

has been verified and recognized as material manufacturer according to

AD 2000-Merkblatt W0

Certificate-No.: 07-203-1409-WP-1348/15

The scope of approval is available in the annex
"scope of approval", file no.:SEI-18/16 (811 309 4779).

The company fulfils the following essential requirements:
Facilities permitting appropriate manufacturing and inspection corresponding to the present
technical standards, quality assurance, which guarantees that manufacturing and inspection of products stated
in our scope of approval are carried out in accordance with technical regulations,
competent supervising and inspecting personnel.

This certificate is valid until

August 2018

Essen, 25.08.2015



Niekamp
TÜV NORD Systems GmbH & Co. KG

TÜV NORD Systems GmbH & Co. KG • Technikzentrum •
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Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045

Scope of approval for material manufacturer acc. to Pressure Equipment Directive 97/23/EC

Annex 1, sec 4.3 and AD 2000 W0

Firma: Goradia Special Steels Ltd.

Place: Khopoli – 410203, Dist. – Raigad, Maharashtra, INDIA

DGRL-Nr.: 07 202 1409 WZ 1348 15

AD 2000-W0-Nr.: 07 203 1409 WP 1348 15

Date : 25.08.2015

File: SEI-18/16

SAP: 811 309 4779



Item No.	Material Designation	Material Specification	Delivery Condition	Article Type of productg	Dim. [mm] Thickness	Dim. Ø[mm] Weight [kg,t]	Tech. Specification Requirements	Remarks	
									3
1.1	1.4301 (X5 Cr Ni 18-10)	EN 10272	U (As rolled)	ROLLED BARS	50 to 95 RCS	20 to 125 ø	Directive PED 97/23/EC AD 2000- Merkblatt W2	Certified acc. to PED annex I, sec. 4.3 by the notified body of TÜV NORD systems (Reg. no. 0045)	
1.2	1.4306 (X2 Cr Ni 19-11)								
1.3	1.4307 (X2 Ni 18-9)								
1.4	1.4311 (X2 Cr Ni N 18-10)		ROUND CORNER SQUARE (RICE) BARS						
1.5	1.4401 (X5 Cr Ni Mo 17-12-2)								
1.6	1.4404 (X2 Cr Ni Mo 17-12-2)								
1.7	1.4406 (X2 Cr Ni Mo N 17-11-2)		ROLLED BARS						
1.8	1.4541 (X6 Cr Ni Mo Ti 18-10)								
1.9	1.4571 (X6 Cr Ni Mo Ti 17-12-2)								
1.10	1.4301 (X5 Cr Ni 18-10)		EN 10269	+AT	ROUND CORNER SQUARE (RCS) BARS	50 to 95 RCS	20 to 125 ø		Directive PED 97/23/EC AD 2000 - Merkblatt W2
1.11	1.4307 (X2 Cr Ni 18-9)								
1.12	1.4401 (X5 Cr Ni Mo 17-12-2)								
1.13	1.4404 (X5 Cr Ni Mo 17-12-2)								
1.14	1.4948 (X6 Cr Ni 18 11)		EN 10222-5	U (As forged) + AT	FORGED BARS PROOF MACHINED BARS	< 250 MM ø	< 250 MM ø		Directive PED 97/23/EC AD 2000 - Merkblatt W2
1.15	1.4301 (X5 Cr Ni 18-10								
1.16	1.4307 X2 Cr Ni 18-9)								
1.17	1.4401 (X5 Cr Ni Mo 17-12-2)								
1.18	1.4404 (X2 Cr Ni Mo 17-12-2								

Eräuterungen / Explanation: +A1 / A1 = Lösungsgeglüht und abgeschreckt / solution heat treated; N = Normisgeglüht und normalisierend umgeformt / normalized; NI = Normisgeglüht und angelassen / normalized and annealed; +U / V = vergütet / quenched and tempered; M = thermomechanisch behandelt / thermomechanical treated zu Werkstoff gem. Richtlinie 97/23/EG / stress relieved; A = weichgeglüht / soft annealed; CR = Temperaturerregt umgeformt / controlled hot rolled Für die spezifischen Einsatzbedingungen ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen benannten Stelle erforderlich.
The specific operation conditions have to be given by the pressure equipment manufacturer. If necessary, the involved notified body has to give his agreement.

TÜV NORD Systems GmbH & Co. KG

Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045

Scope of approval for material manufacturer acc. to Pressure Equipment Directive 97/23/EC

Annex 1, sec 4.3 and AD 2000 W0

Firma: Goradia Special Steels Ltd.

Place: Khopoli - 410203, Dist. - Raigad, Maharashtra, INDIA

Annex to Certificate

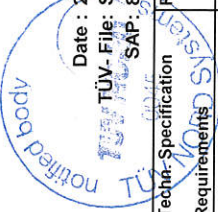
DGRL-Nr.: 07 202 1409 WZ 1348 15

AD 2000-W0-Nr.: 07 203 1409 WP 1348 15

Date: 25.08.2015

TÜV-File: SEI-18/16

SAP: 811 309 4779



Item No.	Material Designation	Material Specification	Delivery condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg.f]	Tech. Specification Requirements	Remarks	
									3
1									
2.1	1.4301 (X5 Cr Ni 18-10)	EN 10088-3	U (AS CAST)	BILLETS *	100X100, 120X120 140X140, 160X160 200X200	7	8	not for use in area of pressure equipment directive	
2.2	1.4306 (X2 Cr Ni 19-11)								
2.3	1.4307 (X2 Ni 18-9)								
2.4	1.4311 (X2 Cr Ni N 18-10)								
2.5	1.4401 (X5 Cr Ni Mo 17-12-2)								
2.6	1.4404 (X2 Cr Ni Mo 17-12-2)								
2.7	1.4406 (X2 Cr Ni Mo N 17-11-2)								
2.8	1.4541 (X6 Cr Ni Mo Ti 18-10)								
2.9	1.4571 (X6 Cr Ni Mo Ti 17-12-2)								
2.10	F 304	ASTM A182	U (As forged) + AT	INGOTS (ROUND) *	280X357X1470 330X406X1525 406X483X1524 432X534X1980 480X540X1510 510X700X1270 660X790X1576 775X925X1360 804X977X1880 960X1200X1740	7	8	* Pre material	
2.11	F 304L								
2.12	F 316								
2.13	F 316 L								
				FORGED BARS PROOF MACHINED BARS		≤ 250 MM Ø			If use in area of pressure equipment directive a particular Material Appraisal as per PED Annex I, 4.2 (c)

Erläuterungen / Explanation: +AT / AT = Lösungsgeglüht und abgeschreckt / solution heat treated; N = Normalgeglüht und normalisierend umgeformt / normalized; NT = Normalgeglüht und angelassen / normalized and annealed; +QT / V = vergütet / quenched and tempered; M = Thermomechanisch behandelt / thermomechanical treated
 AR = Ungewalzt / without annealing; SR = Spannungsarmgeglüht / stress relieved; A = weichgeglüht / soft annealed; CR = Temperaturgeregel umgeformt / controlled hot rolled
 Hinweis zu Werkstoff gem. Richtlinie 97/23/EC / Hints for non harmonized materials use acc. to Directive 97/23/EC:
 Für die spezifischen Einsatzbedingungen ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen benannten Stelle erforderlich.
 The specific operation conditions have to be given by the pressure equipment manufacturer, if necessary, the involved notified body has to give his agreement.

TÜV NORD Systems GmbH & Co. KG



Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045

Scope of approval for material manufacturer acc. to Pressure Equipment Directive 97/23/EC

Annex 1, sec 4.3 and AD 2000 W0

Firma: Goradia Special Steels Ltd.

Place: Khopoli - 410203, Dist. - Raigad, Maharashtra, INDIA

Annex to Certificate

DGRL-Nr.: 07 202 1409 WZ 1348 15

AD 2000-W0-Nr.: 07 203 1409 WP 1348 15

Date: 25.08.2015

TÜV-File: SEI-18/16

TÜV-Nr.: SAP: 811 309 4779



Item No.	Material Designation Material number	Material Specification	Delivery Condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg.f]	Techn. Specification Requrements	Remarks
				5	6	7	8	
2.14	F 5	ASTM A182	U	BILLETS*	100X100, 120X120			
2.15	F 6A Class 1, 2, 3 & 4	ASTM A276	(As Cast)		100X100, 120X120			
2.16	F 11 Class 1, 2, & 3	ADTM A479	U	INGOTS (FLUTED)*	140X140, 160X160			
2.17	F 22 Class 1 & 3				200X200			
2.18	F 51		U	(As Cast)	280X357X1470			
2.19	F 60				330X406X1525			
2.20	F 53				406X483X1524			
2.21	F 91				432X534X1980			
2.22	F 304		U	(As Cast)	480X540X1510			
2.23	F 304 L				510X700X1270			
2.24	F 316		U	(As Cast)	660X790X1576			
2.25	F 316 L				775X925X1360			
2.26	316 Ti		U	(As Cast)	804X977X1880			
2.27	F 310				960X1200X1740			
2.28	F 310 H		U	(As Cast)	ø400X2300			
2.29	F 317				ø500X2500			
2.30	F 317 L		U	ROLLED BARS	ø600X2500			
2.31	F 321							
2.32	F 321 H		U	ROUND CORNER SQUARE (RCS) BARS	50 to 95 RCS			
2.33	F 347							
2.34	F 347 H					20 to 125 ø		If use in area of pressure equipment directive a particular material appraisal as per PED Annex I, 4.2

Erläuterungen / Explanation: +A1 / A1 = Lösungsgeglüht und abgeschreckt / solution heat treated; N = Normalgeglüht und normalisierend umgeformt / normalized; NI = Normalgeglüht und angelassen / normalized and annealed; +Q1 / V = vergütet / quenched and tempered; M = thermomechanisch behandelte / thermomechanically treated; AR = Ungewalzt / without annealing; SR = Spannungsarmgeglüht / stress relieved; A = weichgeglüht / soft annealed; CR = Temperaturregelmäßig umgeformt / controlled hot rolled Hinweis zu Werkstoff gem. Richtlinie 97/23/EG / Hints for non harmonized materials use acc. to Directive 97/23/EC: Für die spezifischen Einsatzbedingungen ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen benannten Stelle erforderlich. The specific operation conditions have to be given by the pressure equipment manufacturer, if necessary, the involved notified body has to give his agreement.