

**BUREAU VERITAS**  
Certification



## Certificate of Conformity

Awarded to:

**ELECTROSTEEL CASTINGS LIMITED**

HEAD OFFICE:

G.K. TOWER – 19, Camac Street, Kolkata, West Bengal – 700017 INDIA

Bureau Veritas Italia S.p.A. certify that the process of application of coatings for the following products:

**Ductile iron pipes and fittings for water and sewerage pipelines**

Applied in the following plants:

Electrosteel Castings Limited – 30, 48, 49 B.T. Road, Khardah, PO – Sukchar, Dist. 24 Parganas (N)  
City – Kolkata, West Bengal 700115 INDIA

Electrosteel Castings Limited – Bansberia Adconagar, Mogra Hoogly  
West Bengal 712121 INDIA

Electrosteel Castings Limited – Kashberia, P.O. Shibram Nagar Haldia, Dist. Purba Midnapore  
West Bengal 721635 INDIA

have been evaluated and found in conformity against the requirement listed in  
Annexes of this certificate

Certification according requirements stated in:

**QHSE-REG-02.TQR Bureau Veritas Rev.02**

Original emission date: 02/08/2019

Last emission date: 02/08/2019

Expiration date: 01/08/2022

Subject to the continued satisfactory operation, to check this certificate validity please refer to website: [www.bureauveritas.it](http://www.bureauveritas.it).  
Further clarifications regarding the scope of this certificate and the applicability of standard's requirements may be obtained  
by consulting the organisation.

Eng. Francesco SUTERA – Technical Director

Date: 02/08/2019

Certificate N°: 1133/001





Annex 1/2 to  
Certificate of Conformity

Awarded to:

**ELECTROSTEEL CASTINGS LIMITED**

HEAD OFFICE:

G.K. TOWER – 19, Camac Street, Kolkata, West Bengal – 700017 INDIA

Regarding the specific activities carried out in the plant as reported in the tables below \*:

PLANT: Khardah, 30 B.T. Road	ACTIVITY (pipes): Casting – Testing - Finishing	DN: DN 80 to DN 1000 PUSH ON DN 80 to DN 1000 RJT
EN 545:2006 4.4.2/EN 598:2007+A1:2009 4.4.2 EN 545:2010 4.5.2/EN 598:2007+A1:2009 4.4.2 ISO 8179-1:2017 <i>Ductile iron pipes, fittings, accessories and their joints</i> <i>External zinc-based coating Metallic zinc with finishing layer</i>		
EN 545:2006 Annex D.2.3 EN 545:2010 Annex D.2.2 EN 598:2007+A1:2009 Annex B.2.2 <i>External coating Zn-Al alloy 85/15 (400 gr/m<sup>2</sup>) with finishing layer</i>		
EN 545:2006 4.4.3/ EN 598:2007+A1:2009 4.4.3 EN 545:2010 4.5.3/ EN 598:2007+A1:2009 4.4.3 ISO 4179:2005 <i>Ductile iron pipes and fittings for pressure and non-pressure pipelines. Cement mortar lining</i>		
ISO 16132:2016 <i>Ductile iron pipes and fittings - Seal coats for cement mortar linings</i>		
PLANT: Khardah, 48 B.T. Road	ACTIVITY: (pipes) Finishing	DN: DN 80 to DN 1000 PUSH ON DN 80 to DN 1000 RJT
External coating : <i>blue or red epoxy, black bitumen</i> EN 545:2006 4.4.2/ ISO 2531:1998 4.4.1 Including annex A EN 545:2010 4.5.2/ ISO 2531:1998 4.4.1 Including annex A EN 598:2007+A1:2009 4.4.2 ISO 7186:2011 4.5.2 Including Annex A <i>Finishing layer (external coating)</i>		
PLANT: Bansberia	ACTIVITY (pipes): Finishing	DN: DN 80 to DN 1000 PUSH ON DN 80 to DN 1000 RJT
External coating : <i>blue or red epoxy, black bitumen</i> EN 545:2006 4.4.2/ ISO 2531:1998 4.4.1 Including annex A EN 545:2010 4.5.2/ ISO 2531:1998 4.4.1 Including annex A EN 598:2007+A1:2009 4.4.2 ISO 7186:2011 4.5.2 Including Annex A <i>Finishing layer (external coating)</i>		
ISO 16132:2016 <i>Ductile iron pipes and fittings - Seal coats for cement mortar linings</i>		

\*Manufacturer has in charge responsibility to specify the provenance of the product and the plant that applied the coating

Date: 02/08/2019

Certificate N°: 1133/001



Annex 2/2 to  
Certificate of Conformity

Awarded to:

**ELECTROSTEEL CASTING LIMITED**

HEAD OFFICE:

G.K. TOWER – 19, Camac Street, Kolkata, West Bengal – 700017 INDIA

Regarding the specific activities carried out in the plant as reported in the tables below \*:

<b>PLANT:</b> Khardah, 49 B.T. Road	<b>ACTIVITY (fittings):</b> Testing - Finishing	<b>DN:</b> DN 80 to DN 1000 PUSH ON DN 80 to DN 1000 RJT
EN 545:2006 4.4.2, 4.5/EN 598:2007+A1:2009 4.4.2, 4.5 EN 545:2010 4.5.2, 4.6/EN 598:2007+A1:2009 4.4.2, 4.5 ISO 8179-2:2017 <i>Ductile iron pipes, fittings, accessories and their joints</i> <i>External zinc-based coating – Part 2: Zinc-rich paint</i>		
EN 545:2006 4.4.3, 4.5/ EN 598:2007+A1:2009 4.4.3, 4.5 EN 545:2010 4.5.3, 4.6/ EN 598:2007+A1:2009 4.4.3, 4.5 ISO 4179:2005 <i>Ductile iron pipes and fittings for pressure and non-pressure pipelines. Cement mortar lining</i>		
EN 14901:2014 <i>Ductile iron pipes, fittings and accessories</i> <i>Epoxy coating (heavy duty) of ductile iron fittings and accessories - Requirements and test methods</i>		
External coating : <i>blue or red epoxy, black bitumen</i> EN 545:2006 4.4.2, 4.5/ ISO 2531:1998 4.4.1 Including annex A EN 545:2010 4.5.2, 4.6/ ISO 2531:1998 4.4.1 Including annex A EN 598:2007+A1:2009 4.4.2, 4.5 ISO 7186:2011 4.5.2 Including Annex A <i>Finishing layer (external coating)</i>		
<b>PLANT:</b> Kashberia	<b>ACTIVITY (fittings):</b> Casting - Testing - Finishing	<b>DN:</b> DN 80 to DN 300 PUSH ON DN 700 to DN 1000+DN 1200 PUSH ON DN 80 to DN 300 RJT DN 700 to DN 1000+DN 1200 RJT
EN 545:2006 4.4.2, 4.5/EN 598:2007+A1:2009 4.4.2, 4.5 EN 545:2010 4.5.2, 4.6/EN 598:2007+A1:2009 4.4.2, 4.5 ISO 8179-2:2017 <i>Ductile iron pipes, fittings, accessories and their joints</i> <i>External zinc-based coating – Part 2: Zinc-rich paint</i>		
EN 545:2006 4.4.3, 4.5/ EN 598:2007+A1:2009 4.4.3, 4.5 EN 545:2010 4.5.3, 4.6/ EN 598:2007+A1:2009 4.4.3, 4.5 ISO 4179:2005 <i>Ductile iron pipes and fittings for pressure and non-pressure pipelines. Cement mortar lining</i>		
EN 14901:2014 <i>Ductile iron pipes, fittings and accessories</i> <i>Epoxy coating (heavy duty) of ductile iron fittings and accessories - Requirements and test methods</i>		
External coating : <i>blue or red epoxy, black bitumen</i> EN 545:2006 4.4.2, 4.5/ ISO 2531:1998 4.4.1 Including annex A EN 545:2010 4.5.2, 4.6/ ISO 2531:1998 4.4.1 Including annex A EN 598:2007+A1:2009 4.4.2, 4.5 ISO 7186:2011 4.5.2 Including Annex A <i>Finishing layer (external coating)</i>		

\*Manufacturer has in charge responsibility to specify the provenance of the product and the plant that applied the coating

Date: 02/08/2019

Certificate N°: 1133/001