



BUREAU
VERITAS

Interim
 Final

INSPECTION REPORT Nr: ECL/BV-KOL/IR/001

BV Job no: IND.K.4.11.0024, R1

PROJECT: -----	Ref. : Nil
BV Client: M/s Electrosteel Castings Ltd.	P/o nr:
Manufacturer / Supplier: M/s Electrosteel Castings Ltd.	Order Ref. : Nil
Inspection requested by: M/s Electrosteel Castings Ltd.	

SUPPLY / SUBJECT OF INSPECTION	Serial Nr	QTY
Reviewing of Test Report / Certificates. For the pipes of DN 200, DN 400, DN 800

DOCUMENTS OF REFERENCE : See continuation sheet for additional documents: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Title	Reference n°	Rev.	Approved by	Date
Standards	EN 545, ISO 2531	-	-	-

<p>INSPECTIONS :</p> <p><u>Inspection place & Date or Period:</u> Electrosteel Castings Ltd. 30 B T Road, PO.Sukhchar, Pin 700116, Kolkata, India. on 28.03.2011.</p> <p><u>Stage of inspection :</u></p> <p><input type="checkbox"/> Before manufacturing <input type="checkbox"/> During manufacturing <input type="checkbox"/> Final <input type="checkbox"/> Packing</p> <p><u>Kind of inspection:</u></p> <p><input type="checkbox"/> Pre-inspection meeting <input type="checkbox"/> Witnessing tests <input type="checkbox"/> Final inspection <input checked="" type="checkbox"/> Document review <input type="checkbox"/> Expediting & vendor assessment <input type="checkbox"/> Packing (for details see continuation sheet)</p> <p><u>Stamping :</u></p> <p><input type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> </p>	<p><u>Results of Review :</u> <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory</p> <p>Ready for despatch : Not applicable</p> <p><u>Non Conformities Reports (NCR):</u></p> <p>o NCR's issued during reported period : Not applicable</p> <p>o List of outstanding NCR's : Not applicable</p> <p><u>Main Conclusions & Remarks:</u> (for details see continuation sheet)</p> <p>Nil.</p> <p><u>Next visit scheduled:</u> ---Not applicable</p>
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Supply/Subject of inspection:-

Sub: Review of performance test certificates for sizes DN 200, DN 400, DN 800.

We have reviewed performance test certificates/ reports for DN 200, DN 400, DN 800 for Push in flexible joints offered by Electrosteel castings Ltd. for their Ductile Iron Pipes & comply with all Performance requirements of EN 545 and ISO 2531 for the size range DN 80 to DN 1100.

Details of Certificates Reviewed - Enclosed

ANNEXES Yes (Total number of pages: 00. No

Reviewed by:

Name : Indrajit Das

Report issued by : Indrajit Das

Date of issue : 06.04.2011

Inspection centre: BV Kolkata

Checked by:

Name:...

Signature:...



INDRAJIT DAS

Distribution: ECL BV - Kolkata

DETAILS OF TYPE TESTS AS ON FEBRUARY 2011- ELECTROSTEEL CASTINGS LTD.

Push on Joint: K9 as per EN 545:2006

SI No	Name of Test	Test Condition	Clause No.	Size in DN	Test Parameter		Witnessed by	Result
					Pressure in bar	Duration in hrs		
1.A	Positive Internal Hydrostatic Pressure Test (Shear)	Joint of maximum annulus, aligned, and withdrawn with shear load	Clause 7.2 of EN 545:2006	200 K9	98	2	BSI, DQA	Complying
				Do	68	2		
1.B	Positive Internal Hydrostatic Pressure Test (Deflection)	Joint of maximum annulus, deflected .	Clause 7.2 of EN 545:2006	200 K9	98	2	BSI, DQA, DVGW	Complying
				Do	53	2		
2.A	Negative Internal Hydrostatic Pressure Test (Shear)	Joint of maximum annulus, aligned and withdrawn with shear load	Clause 7.3 of EN 545:2006	200 K9	-0.9	2	BSI, DVGW	Complying
				Do	53	2		
2.B	Negative Internal Hydrostatic Pressure Test	Joint of maximum annulus, deflected	Clause 7.3 of EN 545:2006	200 K9	-0.9	2	BSI, DVGW	Complying
				Do	-0.9	2		
3	Positive External Hydrostatic Pressure Test	Joint of maximum annulus, aligned and withdrawn with shear load	Clause 7.4 of EN 545:2006	200 K9	2	2	BSI, DVGW	Complying
				Do	-0.9	2		
4	Cyclic Internal Hydrostatic Pressure Test	Joint of maximum annulus, aligned and withdrawn with shear load	Clause 7.5 of EN 545:2006	200 K9	Between 69 & 74	24000 Cycles	SGS	Complying
				Do	Between 46 & 51	24000 Cycles		

Abbreviations :-

- BSI - British Standard Institutions based in UK, Kolkata and other countries.
- DVGW - Deutscher Verein des Gas- und Wasserfaches e. V. - Technisch-wissenschaftlicher Verein = DVGW Germany Technical and Scientific Association for Gas and Water based in Bonn, Germany
- DQA - Director Quality Assurance, Govt. of India.
- IGH - Institut Gradvinarstva Hrvatske (Civil Engineering Institute of Croatia)
- Belgium - Inspector from Belgium.
- BV - Bureau Veritas

