


 Interim
 Final

INSPECTION REPORT Nr: ECL/BV-KOL/IR/003



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
Review of Performance Test Certificates for T-Type Restrained Joint for sizes DN 200, DN300/400 and DN 800/900

DOCUMENTS OF REFERENCE : See continuation sheet for additional documents: Yes No

Title	Reference n°	Rev.	Approved by	Year
Standards	EN 545 ISO 2531	-	-	

INSPECTIONS :	Results of Review : <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory
Inspection place & Date or Period: Electrosteel Castings Ltd. 30 B T Road, PO.Sukhchar, Pin 700116, Kolkata, India. on 04.07.2011.	Ready for despatch : Not applicable
Stage of inspection : <input type="checkbox"/> Before manufacturing <input type="checkbox"/> During manufacturing <input type="checkbox"/> Final <input type="checkbox"/> Packing	Non Conformities Reports (NCR): o NCR's issued during reported period : Not applicable o List of outstanding NCR's : Not applicable
Kind of inspection: <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)	Main Conclusions & Remarks: (for details see continuation sheet) Nil.
Stamping: <input type="checkbox"/> No <input type="checkbox"/>  <input type="checkbox"/> 	Next visit scheduled: ---Not applicable



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Supply/Subject of inspection:-

**Sub: Review of Performance Test Certificates for T-Type
Restrained Joint for sizes DN 200, DN300/400 and DN 800/900.**

We have reviewed performance test certificate/reports for DN 200, DN 300, DN 400, DN 800 and DN 900 for T Type Restrained Joint offered by Electrosteel Castings Ltd. We confirm that their Ductile Iron Pipes and Fittings with the above joint comply with all performance requirements of EN 545 and ISO 2531 for the size range DN 80 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 : 08.07.2011

Inspection centre: BV Kolkata**Checked by:**

Name:...

Signature.....



INDRAJIT DAS

Distribution: ECL BV - Kolkata

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

Sl No	Name of Test	Test Condition	Clause No.	Size in		Test Parameter		Witnessed by	Result
				DN	EN	Pressure in bar	Duration in Hrs		
1.A	Positive Internal Hydrostatic Pressure	Joint of maximum annulus, aligned and withdrawn with shear load	Clause 7.2 of EN 545:2006	200 K9	50/71	2	DVGW,UP,JAL Nigam UP Jal Nigam	Complying	
				300 K9	62				
1.B	Positive Internal Hydrostatic Pressure Test (Deflection)	Joint of maximum annulus, 2 Deg. Deflected	Clause 7.2 of EN 545:2006	400 K9 (Pipe/DSB Fitting)	50	2	DVGW,UP,JAL Nigam DVGW	Complying	
				900 K9	30				
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	74	2	BVQI	Complying	
				400 K9	50				
				900 K9	29	2	DVGW,BSI BVQI	Complying	
2.B	Negative Internal Hydrostatic Pressure Test	Joint of maximum annulus, deflected	Clause 7.3 of EN 545:2006	200 K9	-0.9	2		Not Req. Refer CI.5.3	
				400 K9	-0.9				
				800 K9	-0.9	2		Not Req. Refer CI.5.3	
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	Complying	
				400 K9	-0.9				
				800 K9	-0.9	2		Not Req. Refer CI.5.3	
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	BSI	Complying	
				400 K9	2				
				800 K9	2	2		Complying	
				400 K9	Between 46 & 51	24000 Cycles	BSI	Complying	
				800 K9	Between 33 & 38				
								Complying	

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

BV - Bureau Veritas

