

केन्द्रीय पेट्रोकेमिकल अभियांत्रिकी एवं
प्रौद्योगिकी संस्थान

(पूर्व में केन्द्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

प्रधान कार्यालय, पी. डी. आई. सेल्

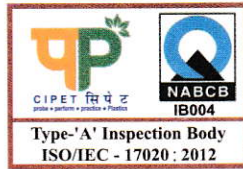
रसायन एवं पेट्रो रसायन विभाग,

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

टी. वी. के. औद्योगिक इस्टेट, गिंडी, चेन्नई - 600 032

दूरभाष : 044-29813708 (Direct) /044-22254780 (Extn-502)

ई-मेल : pdiho@cipet.gov.in



**CENTRAL INSTITUTE OF PETROCHEMICALS
ENGINEERING & TECHNOLOGY (CIPET)**

(Formerly Central Institute of Plastics Engineering & Technology)

Head Office, PDI Cell

Department of Chemicals & Petrochemicals

Ministry of Chemicals & Fertilizers, Govt. of India

TVK Industrial Estate, Guindy, Chennai - 600 032

Phone : 044-29813708 (Direct) / 044-22254780 (Extn-502)

E-mail : pdiho@cipet.gov.in

Name of the Inspecting Official: R. Jeevan Ram

W.O. Centre: Kochi

Code No.: 980

Camp at: M/s Electrosteel Castings Limited, Rachagunneri, Srikalahasthi, Chittoor - 517641

INSPECTION REPORT

1.	IB00422230501483	Date: 21.10.2022
2.	Name of the Indenter / Consignee with address	The Superintending Engineer, KWA, PH Circle, Thrissur. ✓
3.	Indenter Order No. & Date and Extension (if any)	1. W.O. No. KWA/PHC/TSR/D1/2834/2020 dated 30.12.2020 2. Letter No. KWA/HO/SP-440/2017/TPI(I) dated 02.07.2020 of the Managing Director, KWA, Jalabhavan, TVM. 3. Letter dtd. 05.04.2021 of Sri. Muhammed Ali, Thadathil House, Kanayam Post, Shoranur.
4.	Details of the Consignee	The Executive Engineer, PH Division, KWA, Irinjalakuda.
5.	Name of the Supplier / Contractor	Sri. T. Muhammed Ali, Thadathil House, Kanayam P.O., Shoranur, Palakkad Dt. - 679122
6.	Supplier Order No. & Date (if any)	TMALI/110/2020-21 dated 29.07.2022 (Amndmt. to 19.12.2020)
7.	Name and address of the Manufacturer / Inspection site	M/s Electrosteel Castings Limited, Rachagunneri Village, Srikalahasthi, Chittoor - 517641 Andhra Pradesh
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	1. ECL-KL-324-10/22 dated 17.10.2022 2. KWA/PHC/TSR/D1/2834/2020 dated 16.04.2021
9.	PDI Cell Assignment No. & Date	CIPET/HO/2022234342 dated 18.10.2022
10.	Date of inspection	Initiated on: 21.10.2022 Completed on: 21.10.2022
11.	Any other information	1. JJM - Edathiruthy Grama Panchayath - Providing FHTCs to Rural Households, Retrofitting and Augmentation of existing Water Supply Schemes. 2. BIS License No: CM/L- 6245464

DETAILS OF THE STORES

Sl. No.	Description of the items	Quantity as per order	Quantity inspected earlier (Cumulative)	Quantity offered for Inspection	Quantity Accepted	Quantity Rejected	Quantity Balance
Ductile Iron spun Pipes with Socket & Spigot ends suitable for rubber gasket push on jointing as per IS 8329:2000 with ISI Certification Marks with internal Cement Mortar Lining and external Zinc & Bituminous coating.							
1.	DN 250mm Class K9	2305 mtrs	Nil	2305 mtrs	2305 mtrs (375 Nos. x 6.0 mtrs + 10 Nos. x 5.5 mtrs)	Nil	Nil

Remarks: All accepted items are stamped thus-

CIPET
KOC - 980
22 / 05M

1. Certified that the items as detailed above have been inspected and accepted. The accepted items may be dispatched to the consignee. The Inspection Document No. IB00422230501483/1 dated 21.10.2022 is enclosed.
2. Any Dispute/discrepancies/claims may be brought to the notice of the undersigned within 30 days from the date of issue of this report.

AUTHORIZED SIGNATORY
(R. Jeevan Ram, 980)

- CC: 1. The Executive Engineer, PH Division, KWA, Irinjalakuda.
2. Sri. T. Muhammed Ali, Thadathil House, Kanayam P.O., Shoranur, Palakkad Dt. - 679122
3. M/s Electrosteel Castings Limited, Rachagunneri Village, Srikalahasthi, Chittoor - 517641 Andhra Pradesh
4. CIPET : IPT - Kochi

राज्य पेट्रोसायन अभियांत्रिकी एवं
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(पूर्व में केन्द्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

प्रधान कार्यालय, पी. डी. आई. सेल्

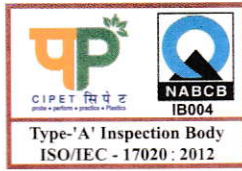
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Name of the Inspecting Official: R. Jeevan Ram

Code No.: 980

W.O. Centre: Kochi
Camp at: M/s Electrosteel Castings Limited, Rachaguneri, Srikalahasthi, Chittoor - 517641

INSPECTION DOCUMENT

Dated: 21.10.2022

Inspection Document No: IB00422230501483/1

Issued to: M/s Electrosteel Castings Limited, Rachaguneri Village, Srikalahasthi, Chittoor - 517641 Andhra Pradesh

Manufacturer / Supplier Inspection Call Letter No. & Date: ECL-KL-324-10/22 dated 17.10.2022 & KWA/PHC/TSR/D1/2834/

2020 dated 16.04.2021

Test Report as per IS 8329:2000 (Latest Amendment)

PART - A: PARTICULARS OF STORES

- a) Description of the items : Ductile Iron Pipes (Socket & Spigot ends with Supply of rubber gasket push on jointing)
b) Grade/Variety/Type/Size/Class etc. : 250mm DN, Class K9
c) Declared Value, if any : Nil
d) Quantity : 2305 mtrs (375 Nos. x 6.0 mtrs + 10 Nos. x 5.5 mtrs)
e) Any Other Information : Batch No. 11J, 15J, 18J & 19J

PART - B: SUPPLEMENTARY INFORMATIONS

Reference to sampling procedure: IS 11606: 1986 (Random Sampling Method)

PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

Sl. No.	Clause No.	Tests Witnessed	Unit	Specified Requirements	Observed Results
DIMENSIONS					
1	13	Effective length (L) (Socket Ended Pipe)	mm		
1.1	13.1 & 15.5	Minimum/Maximum	mm	5400 / 5600 5900 / 6100	5501 / 5527 6002 / 6029
1.2	13.3 & 15.4 Table 2	Min. Wall Thickness (e)	mm	5.3	6.2
1.3	15.1.1 Table 7	External Diameter (DE)	mm	270.9 / 275.0	271.5 / 274.6
1.4	15.1.3	Minimum/ Maximum	mm	270.9 / 275.0	271.5 / 274.6
1.4	Table 8 & 15.3.2	Ovality	%	Within the DE Limit	Satisfactory
1.4	Table 8 & 15.3.2	Tolerance on Ovality	mm	1.0	Not Applicable
1.5	15.6	Deviation from Straight Line (maximum)	mm	≤ 1.25 x L	< 1.25 x L
External Protection					
1.6	16.2	Zinc + Bituminous Coating Thickness (Min.)	µm	-	85
1.6	Annex A & C	Bituminous Coating-Minimum	µm	50	> 50
1.6	Annex C 2.2	Bituminous Coating-Mean	µm	70	> 70
1.6	Annex C 2.2	Bituminous Coating-Mean	µm	70	> 70
1.7	16.2 & Annex. C-2.3	Bituminous Coating shall be smooth & tenacious and hard enough not to flow when exposed to a temp of 65°C but not so brittle at temp of 0°C as to chip off when scribed with a pen knife.			Satisfactory
Internal Linings					
1.8	16.3	Cement Mortar Lining (Min.)	mm	1.5	2.5
1.8	Table 15 & B-5	Chamfer Length of CML (Max.)	mm	50	< 50
1.8	B-5	Minimum Bore of CML	mm	237	240
1.8	Table 16 & B-7	Minimum Bore of CML	mm	237	240
Mechanical Tests					
2	10	Minimum Tensile Strength	MPa	420	471.09
2.1	10.1.1	Minimum Elongation at Break	%	10	13.31
2.2	10.1.1	Minimum Elongation at Break	%	10	13.31
2.3	10.2	Brinell Hardness Test	HB	230 (Max.)	186

Review of Documents (if any)

Sl. No.	Clause No/QAP Sl. No.	Test Parameters / Documents	Certificate / Reports No. & Date	Certificate / Report Issued by.	Review / Remarks
1.	11.1	Hydrostatic pressure, 5.0 MPa for 10 seconds	Declaration on "Works Certificate for DI Pipes" for Hydrostatic Test by M/s Electrosteel Castings Ltd., Srikalahasthi.		Reviewed and Found Satisfactory
2.	16.2	Zinc mass deposition	"Zinc Coating Report" of M/s Electrosteel Castings Ltd., Srikalahasthi.		Reviewed and Found Satisfactory
3.	8	Rubber Sealing Ring	Test Report No. issued by Rubber sealing ring manufacturer: 1. 220911/1.4 Dt: 11.09.2022 by M/s Prabhat Elastomers Pvt. Ltd., Mumbai.		Reviewed and Found Satisfactory

PART - D: REMARKS

- This Inspection document shall not be reproduced except in full without the written approval of the PDI Cell at CIPET Head Office, Chennai.
- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
- Lab. Environmental Condition during the witness of tests: Temp. (°C): 24 ± 2.
- Calibration status of equipment / Instruments are verified.

AUTHORIZED SIGNATORY
(R. Jeevan Ram, 980)