

केन्द्रीय पेट्रोसायन अभियांत्रिकी एवं  
प्रौद्योगिकी संस्थान (सिपेट)

(पूर्व में केन्द्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

मुख्यालय, पीडीआई सेल  
रसायन एवं पेट्रो रसायन विभाग,  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार,  
टीवीके औद्योगिक इस्टेट, गिंडी, चेन्नई - 600 032  
दूरभाष : 044-29813708 (Direct) /044-22254780 (Extn-502)  
ई-मेल : pdiho@cipet.gov.in



CIPET सिपेट  
probe - perform - practice - Plastics



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.Manikandan  
Code No. : 1181

WO Centre: CIPET: IPT, Kochi  
Camp at: M/s Jindal Saw Ltd., Haresamudram

INSPECTION REPORT

1.	Unique Identification Code & Date	: IB00423240501401 & 30.07.2023
2.	Name of the Indenter / Consignee with detailed address	: Office of the Executive Engineer,P.H.Division,Irinjalakuda-680121
3.	Department W.O / P.O No.	: D4-2235/2022, dated-05.05.2023
4.	Details of the Consignee	: M.V Viswanathan,Mecheril House,Binanipuram P.O,Edayar,Aluva
5.	Name of the Supplier / Contractor	: M.V Viswanathan,Mecheril House,Binanipuram P.O,Edayar,Aluva..
6.	Supplier / Contractor P.O. No.	: DI-01/T88/MVV/JSL/23 dated: 03.05.2023
7.	Name and address of the Manufacturer / Inspection site	: M/s Jindal saw Ltd, Haresamudram Village, Bommanahal Mandal, Anantapur Dist. ,A.P- 515873
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	: Ref. No.: JSAW/DIP/IC/2023/07-026, Dated:17.07.2023
9.	PDI Cell Assignment No. & Date	: CIPET/HO/2023243189 Dtd.: 27.07.2023
10.	Date of inspection	: Initiated on: 30.07.2023 Completed on: 30.07.2023
11.	Nature of Work / Project	: Name of the Project: JJM Parappukkara Grama Panchayath-Pipe Line Extension and providing FHTC at various places of Parappukkara panchayath.
12.	Any other information	: BIS License No. CML/-4761775

DETAILS OF THE STORES

Sl. No	Description of the items	Quantity as per order (in Mts.)	Quantity inspected earlier (Cumulative) (in Mts.)	Quantity offered for Inspection (in Mts.)	Quantity Accepted (in Mts.)	Quantity Rejected (in Mts.)	Quantity Balance (in Mts.)
Centrifugally cast (spun) Ductile Iron(DI) Pipes Class K9 for water, gas, and sewage, inside cement mortar lining and outside zinc coating with finishing layer of bitumen paint, conforming to IS 8329:2000 and with latest amendments.							
1.	DN 200mm Class K9	6920	996	996 (166Nos.x6.0m)	996 (166Nos.x6.0m)	0.0	4928
2.	DN 300mm Class K9	3929	996	996 (166Nos.x6.0m)	996 (166Nos.x6.0m)	0.0	1937

Remarks: All accepted items are stamped thus-



- 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. IB00423240501401 / 1 to 2 dated 30.07.2023 are enclosed.
- Any Dispute/discrepancies/claims may be brought to the notice of the undersigned within 30 days from the date of issue of this report.

AUTHORISED SIGNATORY  
(R.MANIKANDAN)  
Code No:1181

CC: 1.The SE, RWS&S, Irinjalakuda  
3. M/s Jindal, Haresamudram Village, Anantapur Dist. (A.P)

2. M.V Viswanathan.  
4. CIPET Kochi /Hyderabad





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Name of the Inspecting Official: R.Manikandan  
Code No. : 1181

WO Centre: CIPET: IPT, Kochi.

Camp at: M/s Jindal SAW Ltd., Haresamudram

**INSPECTION DOCUMENT**

Inspection Document No.: IB00423240501401 / 1

Dated:- 30.07.2023

Issued to: M/s. Jindal Saw Ltd., Haresamudram, Anantapur

Manufacturer / Supplier Inspection Call Letter No. & Date: Ref. No.: JSAW/DIP/IC/2023/07-026, Dated:17.07.2023

Inspection Document as per IS: 8329: 2000 with latest amendments

**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. | : DN 200 mm, Class K-9                                                                    |
| c) Declared Value, if any             | : Nil                                                                                     |
| d) Quantity                           | : 996 m (166 Nos.X6.0m)                                                                   |
| e) Any Other Information              | : Batch No. G23,G24.                                                                      |

**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
1	13	<b>DIMENSIONS</b>			
1.1	13.1 & 15.5	Length	Mm		
		Effective length (L) (Socket Ended Pipe)			
		Minimum/Maximum	Mm	5900 / 6100	6003 / 6026
1.2	13.3 & 15.4 Table 2	Min. Wall Thickness (e)	Mm	4.8/6.3	5.2/7.8
1.3	15.1.1 Table 7	External Diameter (DE)			
		Minimum/ Maximum	Mm	219.0 / 223.0	219.7 / 222.5
1.4	15.1.3	Ovality	%	Within the tolerance on DE	Satisfactory
	Table 8 & 15.3.2	Tolerance on Ovality	Mm	1.75	Satisfactory
1.5	15.6	Deviation from Straight Line(maximum)	Mm	≤ 1.25 X L	< 1.25 X L
	16.2	<b>External Protection</b>			
1.6	Annex. A & C	Zinc + Bituminous Coating Thickness (Min.)	µm	-	-
	Annex. C 2.2	Bituminous Coating-Minimum	µm	50	93/103
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
	16.3	<b>Internal Linings</b>			
1.8	Table 15 & B-5	Cement Mortar Lining (Min.)	Mm	1.5	3.1
	B-5	Chamfer Length of CML (Max.)	Mm	50	< 50
	Table 16 & B-7	Minimum Bore of CML	Mm	187	190
2	10	<b>Mechanical Tests</b>			
2.1	10.1.1	Minimum Tensile Strength	MPa	420	484
2.2		Minimum Elongation at Break	%	10	14.97
2.3		Brinell Hardness Test	HB	230(Max.)	179

**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	Work Test Certificate issued by M/s JINDAL SAW Ltd.		Reviewed and Satisfactory
2	16.2	Zinc mass deposition	Zinc Coating Mass Report of M/s JINDAL SAW Ltd.		Reviewed and Satisfactory
3	8	Rubber Sealing Ring	Test Report No issued by Rubber sealing ring manufacturer: 1. Test Report: 210423/1 Dt: 21.04.2023 by M/s Allinz Elastomer 2. Test Report: APPL/JSL/1049A Dt: 22.03.2023 by M/s Andhra Polymers Pvt. Ltd.		Reviewed and Satisfactory

**PART - D: REMARKS**

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- 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.



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Camp at: M/s Jindal SAW Ltd., Haresamudram

**INSPECTION DOCUMENT**

Inspection Document No.: IB00423240501401 / 2

Dated:- 30.07.2023

Issued to: M/s. Jindal Saw Ltd., Haresamudram, Anantapur

Manufacturer / Supplier Inspection Call Letter No. & Date: Ref. No.: JSAW/DIP/IC/2023/07-026, Dated:17.07.2023

Inspection Document as per IS: 8329: 2000 with latest amendments

**PART A: PARTICULARS OF STORES**

f) Description of the items	: Ductile Iron Pipes (Socket & Spigot ends with supply of rubber gasket push on jointing)
g) Grade/Variety/Type/Size/Class etc.	: DN 300 mm, Class K-9
h) Declared Value, if any	: Nil
i) Quantity	: 996 m (166 Nos.X6.0m)
j) Any Other Information	: Batch No. G01,G03,G10

**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	
1	13	<b>DIMENSIONS</b>				
1.1	13.1 & 15.5	Length	Mm			
		Effective length (L) (Socket Ended Pipe)				
		Minimum/Maximum	Mm	5900 / 6100	6001 / 6029	
1.2	13.3 & 15.4 Table 2	Min. Wall Thickness (e)	Mm	5.6/7.2	6.0/6.7	
1.3	15.1.1 Table 7	External Diameter (DE)				
		Minimum/ Maximum	Mm	322.7 / 327.0	323.4 / 326	
1.4	15.1.3	Ovality	%	Less than 1%	Satisfactory	
	Table 8 & 15.3.2	Tolerance on Ovality	Mm	1.75	Satisfactory	
1.5	15.6	Deviation from Straight Line(maximum)	Mm	≤ 1.25 X L	< 1.25 X L	
1.6	16.2	<b>External Protection</b>				
		Annex. A & C	Zinc + Bituminous Coating Thickness (Min.)	µm	-	-
		Annex. C 2.2	Bituminous Coating-Minimum	µm	50	93/105
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	
1.8	16.3	<b>Internal Linings</b>				
		Table 15 & B-5	Cement Mortar Lining (Min.)	Mm	1.5	3.0
		B-5	Chamfer Length of CML (Max.)	Mm	50	< 50
		Table 16 & B-7	Minimum Bore of CML	Mm	287	290
2	10	<b>Mechanical Tests</b>				
2.1	10.1.1	Minimum Tensile Strength	MPa	420	467	
2.2		Minimum Elongation at Break	%	10	14.86	
2.3	10.2	Brinell Hardness Test	HB	230(Max.)	175	

**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	Work Test Certificate issued by M/s JINDAL SAW Ltd.		Reviewed and Satisfactory
2	16.2	Zinc mass deposition	Zinc Coating Mass Report of M/s JINDAL SAW Ltd.		Reviewed and Satisfactory
3	8	Rubber Sealing Ring	Test Report No issued by Rubber sealing ring manufacturer: 1. Test Report: 210423/1 Dt: 21.04.2023 by M/s Allinz Elastomer 2. Test Report: APPL/JSL/1049A Dt: 22.03.2023 by M/s Andhra Polymers Pvt. Ltd. 3. WRM/JSW/TRG/23-24 Dated-11-04-2023 by M/s WRM		Reviewed and Satisfactory

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