

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.-50)  
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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)  
Email : pdiho@cipet.gov.in

Name of the Inspecting Official: P.Radhakrishnan  
Code No. : 785

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

INSPECTION REPORT

1.	Unique Identification Code & Date	: IB00422230500595 & 24.05.2023
2.	Name of the Indenter / Consignee with detailed address	: The Executive Engineer, KWA, P.H.Division, Irinjalakuda-680 121.
3.	Department W.O / P.O No	: Agreement No. 60/SE/PHC/TSR/2022-23 Dtd: 23.01.2023 No.D4-2235/2022 Dtd: 05.05.2023
4.	Details of the Consignee	: KWA JJM Project Site, Parappukkara Panchayath, Thrissur District.
5.	Name of the Contractor	: Sri.M.V.Viswanathan, Mecheril House, Binanipuram P.O., Edayar, Aluva.
6.	Contractor P.O. No.	: Ref. Order 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/2022/05-25, Dated: 17.05.2023.
9.	PDI Cell Assignment No. & Date	: CIPET/HO/2023241203 Dtd: 18.05.2023
10.	Date of inspection	: Initiated on: 24.05.2023 Initiated on: 24.05.2023
11.	Nature of Work / Project	: Name of the Project: JJM-Parappukkara Grama Panchayath- Pipe line extension and providing FHTC at various places of Parappukkara-Third Party Inspection of DI-K9 pipes-Reg.
12.	Any other information	: BIS License No. CM/L-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.)
Ductile Iron(DI) 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 350mm Class K9	1481	NIL	348 (58Nos.x 6m)	348 (58Nos.x 6m)	0.0	1133
2.	DN 300mm Class K9	3929	NIL	996 (166Nos.x 6m)	996 (166Nos.x 6m)	0.0	2933
3.	DN 200mm Class K9	6920	NIL	996 (166Nos.x 6m)	996 (166Nos.x 6m)	0.0	5924

Remarks: All accepted items are stamped thus- (White round seal with CIPET LOGO)

CIPET/MDU/785  
24-03M

- 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. IB00422230500595 / 1, 2, 3 & Dated: 24.05.2023 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  
(P.RADHAKRISHNAN)

CC: 1. The EE, KWA, Irinjalakuda  
3. M/s JSAW, Haresamudram Village, Anantapur Dist. (A.P)

2. Sri.M.V.Viswanathan, Contractor  
4. CIPET: IPT, Kochi

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Name of the Inspecting Official: P.Radhakrishnan  
Code No. : 785

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

**INSPECTION DOCUMENT**

Inspection Document No. & Date : IB00422230500595 / 1 & Dated: 24.05.2023  
Issued to : M/s Jindal Saw Ltd., Haresamudram Village, Anantapur Dist.(A.P)  
Manufacturer / Supplier Inspection Call Letter No. & Date : Ref. No.: JSAW/DIP/C/2022/05-25, Dated:17.05.2023  
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 joint)  
b) Grade/Variety/Type/Size/Class etc. : DN 350 mm, Class K9  
c) Declared Value, if any : Nil  
d) Quantity : 348 Mtrs. (58Nos.x 6m)  
e) Any Other Information : Batch No.: D18

**PART - B: SUPPLEMENTARY INFORMATIONS**

a) Sampling procedure : Random Sampling Method as per IS 11808: 1986

**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	Effective Length (Socket Ended Pipe): Min. / Max.	mm	5900 / 6100	6002 / 6029	
1.2	13.2 & Table 16 (B-7)	Minimum Bore of CML	mm	335	341	
1.2	13.3 & 15.4 Table 2	Min. Wall Thickness (e)	mm	6.1	7.6	
1.3	15.1.1 Table 7	External Diameter (DE) – Min. / Max.	mm	374.6 / 379.0	376.2 / 378.5	
1.4	15.1.3	Ovality on DE	%	Should not exceed 1%	Complies	
1.5	15.3.2 & Table 8	Tolerance on Ovality	mm	≤ 1.75	Complies	
1.6	15.6	Deviation from Straight Line (max.)	mm	≤ 1.25 X L (≤ 6.8)	Complies	
1.7	16.2 & Annex. C 2.2	Bituminous Coating Thickness – Min.	µm	50/70	104/126	
1.8	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 penknife			Reviewed	
1.9	16.3, Table 15 & Annex. B-7	Cement Mortar Lining (Minimum)	mm	3.0	5.0	
2	10	<b>Mechanical Tests</b>				
2.1	10.1.1	Minimum Tensile Strength	MPa	420	456	
2.2		Minimum Elongation at Break	%	10	15.75	
2.3	10.2	Brinell Hardness (Max.)	HB	230	169	

**DOCUMENTS REVIEWED**

Sl. No.	Clause No.	Test Parameters	Details of Documents	Observations
1	11.1	Minimum Hydrostatic pressure- 4.0 MPa for 10 seconds	Declaration on "Works Certificate for DI Pipes" Hydrostatic Test Report by M/s Jindal Saw Ltd., Haresamudram.	Reviewed
2	16.2	Zinc coating mass (Ave. >130 g/m <sup>2</sup> / Min. 110 g/m <sup>2</sup> )	"Zinc Coating Report" of M/s Jindal Saw Ltd., Haresamudram.	Reviewed
3	8	Rubber Sealing Ring	Test Reports issued by Rubber Sealing Ring Manufacturer: Test Report No.: HCPL/03/22-23, Dtd.: 09.01.2023 (Batch Nos. 12/2022 & 01/2023) - M/s. Holdwell Components Pvt. Ltd., Raipur	Reviewed

**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.

  
AUTHORISED SIGNATORY  
(P.RADHAKRISHNAN)

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Name of the Inspecting Official: P.Radhakrishnan  
Code No. : 785

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

INSPECTION DOCUMENT

Inspection Document No. & Date : IB00422230500595 / 2 & Dated: 24.05.2023  
Issued to : M/s Jindal Saw Ltd., Haresamudram Village, Anantapur Dist.(A.P)  
Manufacturer / Supplier Inspection Call Letter No. & Date : Ref. No. : JSAW/DIP/IC/2022/05-25, Dated:17.05.2023  
Inspection Document : As per IS: 8329: 2000 with latest amendments

PART A: PARTICULARS OF STORES

a) Description of the Items : Ductile Iron(DI) Pipes (Socket & Spigot ends with supply of rubber gasket push on joint)  
b) Grade/Variety/Type/Size/Class etc. : DN 300 mm, Class K9  
c) Declared Value, if any : Nil  
d) Quantity : 996Mtrs. (166Nos.x 6m)  
e) Any Other Information : Batch Nos. : E17 & E18

PART - B: SUPPLEMENTARY INFORMATIONS

b) Sampling procedure : Random Sampling Method as per IS 11608: 1986

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

Sl. No.	Clause No.	Tests Witnessed	Unit	Specified Requirements	Observed Results
<b>DIMENSIONS</b>					
1.1	13.1 & 15.5	Effective Length (Socket Ended Pipe): Min. / Max.	mm	5900 / 6100	6001 / 6027
1.2	13.2 & Table 16 (B-7)	Minimum Bore of CML	mm	287	292
1.2	13.3 & 15.4 Table 2	Min. Wall Thickness (e)	mm	5.6	7.4
1.3	15.1.1 Table 7	External Diameter (DE) - Min. / Max.	mm	322.7 / 327.0	323.4 / 326.4
1.4	15.1.3	Ovality on DE	%	Should not exceed 1%	Complies
1.5	15.3.2 & Table 8	Tolerance on Ovality	mm	≤ 1.75	Complies
1.6	15.6	Deviation from Straight Line (max.)	mm	≤ 1.25 X L (≤ 6.8)	Complies
1.7	16.2 & Annex. C 2.2	Bituminous Coating Thickness - Min.	µm	50/70	99/128
1.8	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 penknife.			Reviewed
1.9	16.3, Table 15 & Annex. B-7	Cement Mortar Lining (Minimum)	mm	1.5	2.9
<b>Mechanical Tests</b>					
2.1	10	Minimum Tensile Strength	MPa	420	466
2.2	10.1.1	Minimum Elongation at Break	%	10	13.89
2.3	10.2	Brinell Hardness (Max.)	HB	230	175
<b>DOCUMENTS REVIEWED</b>					
Sl. No.	Clause No.	Test Parameters	Details of Documents		Observations
1	11.1	Minimum Hydrostatic pressure- 4.0 MPa for 10 seconds	Declaration on "Works Certificate for DI Pipes" Hydrostatic Test Report by M/s Jindal Saw Ltd., Haresamudram.		Reviewed
2	16.2	Zinc coating mass (Ave. >130 g/m <sup>2</sup> / Min. 110 g/m <sup>2</sup> )	"Zinc Coating Report" of M/s Jindal Saw Ltd., Haresamudram.		Reviewed
3	8	Rubber Sealing Ring	Test Reports issued by Rubber Sealing Ring Manufacturer: Test Report No.: 210423/3 Dtd.: 21.04.2023 - M/s. Allianz Elastomer		Reviewed

PART - D: REMARKS

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- Calibration status of equipment / Instruments are verified.

AUTHORISED SIGNATORY  
(P.RADHAKRISHNAN)

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INSPECTION DOCUMENT

Inspection Document No. & Date : IB00422230500596 / 3 & Dated: 24.05.2023  
Issued to : M/s Jindal Saw Ltd., Haresamudram Village, Anantapur Dist.(A.P)  
Manufacturer / Supplier Inspection Call Letter No. & Date : Ref. No.: JSAWDIP/IC/2022/05-25. Dated: 17.05.2023  
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 joint)  
b) Grade/Variety/Type/Size/Class etc. : DN 200 mm, Class K9  
c) Declared Value, if any : Nil  
d) Quantity : 996 (166Nos.x 6m)  
e) Any Other Information : Batch Nos.: D28 & D27.

PART - B: SUPPLEMENTARY INFORMATIONS

c) Sampling procedure : Random Sampling Method as per IS 11606: 1988

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

Sl. No.	Clause No.	Tests Witnessed	Unit	Specified Requirements	Observed Results
<b>DIMENSIONS</b>					
1	13				
1.1	13.1 & 15.5	Effective Length (Socket Ended Pipe): Min. / Max.	mm	5900 / 6100	6002 / 6027
1.2	13.2 & Table 18 (B-7)	Minimum Bore of CML	mm	187	292
1.2	13.3 & 15.4 Table 2	Min. Wall Thickness (e)	mm	4.8	7.6
1.3	15.1.1 Table 7	External Diameter (DE) - Min. / Max.	mm	219.0 / 223.0	375.5 / 378.3
1.4	15.1.3	Ovality on DE	%	Should not exceed 1%	Complies
1.5	15.3.2 & Table 8	Tolerance on Ovality	mm	≤ 1.75	Complies
1.6	15.6	Deviation from Straight Line (max.)	mm	≤ 1.25 X L (≤ 6.8)	Complies
1.7	16.2 & Annex. C 2.2	Bituminous Coating Thickness - Min.	µm	50/70	105/125
1.8	16.2 & Annex. C-2.3	Bituminous Coating shall be smooth & tenacious and hard enough not to flow when exposed to a temp of 85°C but not so brittle at temp of 0°C as to chip off when scribed with a penknife.			Reviewed
1.9	16.3, Table 15 & Annex. B-7	Cement Mortar Lining (Minimum)	mm	3.0	4.6
<b>Mechanical Tests</b>					
2	10				
2.1	10.1.1	Minimum Tensile Strength	MPa	420	482
2.2		Minimum Elongation at Break	%	10	14.91
2.3	10.2	Brinell Hardness (Max.)	HB	230	158

DOCUMENTS REVIEWED

Sl. No.	Clause No.	Test Parameters	Details of Documents	Observations
1	11.1	Minimum Hydrostatic pressure- 4.0 MPa for 10 seconds	Declaration on "Works Certificate for DI Pipes" Hydrostatic Test Report by M/s Jindal Saw Ltd., Haresamudram.	Reviewed
2	16.2	Zinc coating mass (Ave. >130 g/m <sup>2</sup> / Min. 110 g/m <sup>2</sup> )	"Zinc Coating Report" of M/s Jindal Saw Ltd., Haresamudram.	Reviewed
3	8	Rubber Sealing Ring	Test Reports issued by Rubber Sealing Ring Manufacturer: Test Report No.: APPL/JSL/125, Dtd.: 15.05.2023 (Batch Nos. 06D23 TO 13E23) - M/s. Andhra Polymers Pvt. Ltd., Hyderabad	Reviewed

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