

केन्द्रीय पेट्रो रसायन 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)

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CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY(CIPET)

(Formerly Central Institute of Plastics Engineering & Technology)

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Email : pdiho@cipet.gov.in

Name of the Inspecting Official: E. Sivakumar

Code No.: 1017

W.O. Centre: Kochi

Camp at: M/sTata Metaliks Ltd., Kharagpur

INSPECTION REPORT

1.	IB00423240500417	Date: 12.05.2023
2.	Name of the Indenter / Consignee with address	The Executive Engineer, Kerala Water Authority (KWA), P. H Division, Irinjalakuda, Kerala - 680121 ✓
3.	Indenter Order No. & Date and Extension (if any)	(i) No. D5-1672/2022 dated 16.11.2022 (ii) Work order No. KWA/PHC/TSR/D1/3241/2020 dated 18.06.2022 (iii) Lr No: KWA/HO/SP-440/2017/TPI(1) dt. 02.07.2020 of MD,KWA, TVM
4.	Details of the Consignee	The Executive Engineer, Kerala Water Authority (KWA), P. H Division, Irinjalakuda, Kerala - 680121
5.	Name of the Supplier / Contractor	M/s East India Engineers, Vyira-79, Vinayaka Nilayam, Azad Road, Vylloppilly Lane, Kaloor, Kochi - 682017
6.	Supplier Order No. & Date (if any)	EIE-JKK/TML/DIP/2022-23/955 dated 11.11.2022
7.	Name and address of the Manufacturer / Inspection site	M/s. Tata Metaliks Ltd, Vill: Maheshpur, PO: Samraipur, Paschim, Midnapore - 721301, West Bengal
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	TML/CIPET/PDI/2023-24/55 Date:-10.05.2023
9.	PDI Cell Assignment No. & Date	CIPET/HO/2023240999 dated 11.05.2023
10.	Date of Inspection	Initiated on: 12.05.2023 Completed on: 12.05.2023
11.	Name of the Work	JJM- S. N. Puram Panchayath Phase-1, CWSS to Nattika Firka and for Providing FHTCs to rural house holds from ongoing scheme (MVS) including Distribution Strengthening.
12.	Any other information	BIS License No: CM/L- 5506259

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 350mm Class K9	2071 Mtrs	NIL	2068 Mtrs.	2068 Mtrs. (376 Nos. X 5.5 Mtrs)	NIL	3 Mtrs.
Remarks: All accepted items are stamped thus- CIPET/ MDU/ 1017/2023-24 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 Nos. IB00423240500417 / 1 dated 12.05.2023 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.

E. Sivakumar
12/05/23.
AUTHORIZED SIGNATORY
(E.Sivakumar -1017)

- CC: 1. The Executive Engineer, Kerala Water Authority (KWA), P. H Division, Irinjalakuda, Kerala - 680121
2. M/s East India Engineers, Vyira-79, Vinayaka Nilayam, Azad Road, Vylloppilly Lane, Kaloor, Kochi - 682017
3. M/s Tata Metaliks Ltd, Vill: Maheshpur, PO: Samraipur, Paschim, Midnapore - 721301, West Bengal
4. CIPET : IPT - Kochi.



Name of the Inspecting Official: E Sivakumar
 Code No. : 1017

WO Centre: CIPET, Kochi.
 Camp at: M/s Tata Metaliks Limited, Kharagpur.

INSPECTION DOCUMENT

Inspection Document No.: IB00423240500417 /1

Dated: - 12.05.2023

Issued to: M/s. Tata Metaliks Limited, vil: Mahespur, P.O. Samraipur, Paschim Medinipur, and Kharagpur 721301

Manufacturer / Supplier Inspection Call Letter No. & Date: TML/CIPET/PDI/2023-24/55 Date:-10.05.2023

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 jointing)
 b) Grade/Variety/Type/Size/Class etc. : DN 350 mm, Class K-9
 c) Declared Value, if any : Nil
 d) Quantity : 2068 Mtrs. (378 Nos. X 5.5 Mtrs)
 e) Any Other Information : Batch No. E6, E7, E8, E9

PART - B: SUPPLEMENTARY INFORMATIONS

Reference to sampling procedure: IS 11608: 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				
1.1	13.1 & 15.5	Effective length (L) (Socket Ended Pipe) (Minimum / Maximum)	mm	5400 / 5600	5496 / 5521
1.2	3.3 & 15.4 Table 2	Min. Wall Thickness (e)	mm	6.1	7.2
1.3	15.1.1 Table 7	External Diameter (DE) (Minimum / Maximum)	mm	374.6 / 379.0	375.6 / 378.1
1.4	15.1.3	Ovality	%	Within the DE Limit	Satisfactory
	Table 8 & 15.3.2	Tolerance on Ovality	mm	1.75	N/A
1.5	15.6	Deviation from Straight Line (Maximum)	mm	≤ 1.25 X L	< 1.25 X L
External Protection :					
1.6	Annex. A & C	Zinc Coating Average Mass (Minimum)	g/m ²	130	138
	Annex. C 2.2	Bituminous Coating (Minimum)	µm	50	98
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				
	Table 15 & B-5	Cement Mortar Lining (Minimum)	mm	3.0	4.4
	B-5	Chamfer Length of CML (Maximum)	mm	50	< 50
	Table 16 & B-7	Minimum Bore of CML	mm	385	Passed through 335 mm Go Gauge
Mechanical Tests :					
2	10				
2.1	10.1.1	Minimum Tensile Strength	MPa	420	451
2.2		Minimum Elongation at Break	%	10	13.60
2.3	10.2	Brinell Hardness Test	HB	230 (Max.)	161

PART - D: REMARKS :

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, 4.0 MPa for 10 seconds	Declaration on "Works Certificate for DI Pipes" for Hydrostatic Test by M/s Tata Metaliks Ltd., Kharagpur.		Reviewed and Found Satisfactory
2.	16.2	Zinc mass deposition	"Zinc Coating Report" of M/s Tata Metaliks Ltd., Kharagpur.		Reviewed and Found Satisfactory
3.	8	Rubber Sealing Ring	Test Report No issued by Rubber sealing ring manufacturer: 1. Test Report: HCPL/TML/123 Dt: 07.06.2023 by M/S HOLDWELL, Ltd. 2. Test Report: DEESA/TDIP/L01 Dt: 11.04.2023 by M/s. Deesawala Rubber Industries. 3. Test Report: APPL/TML/67 Dt: 30.04.2023 by M/s. Andhra Polymers Pvt. Ltd		Reviewed and Found Satisfactory

- 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.

E Sivakumar
 12/05/23
 AUTHORIZED SIGNATORY
 (E Sivakumar -1017)