केन्द्रीय पेट्रोरसायन 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

ई-मेल : pdiho@cipet.gov.in





CENTRAL INSTITUTE OF PETROCHEMICALS **ENGINEERING & TECHNOLOGY**

(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)

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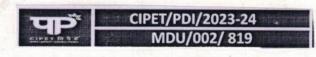
CIPET/	QF/7741	
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Name of Inspecting Official: T Nagarajan W.O. Centre:Kochi Code No 910 Camp. at : M/s. A.N.D. Valves and Castings India Pvt Ltd.

	ode No. : 819	INS	SPECTION REPORT	M/s. A N D valves and Castings India PVI Ltd	
1.	Report No : IB00423240500061	1:	Date: 12.04.2023		
2.	Name of the Indenter / Consignee with detailed address	:	The Executive Engineer, Kerala Water Authority, Office of The Executive Engineer, P. H Division, Irinjalakuda. Pin-680121		
3.	Indenter Order No.& Date and Extension (if any)	:	D6-2354/2022 Dt.06.01.2023		
4.	Details of the Consignee	1	The Executive Engineer, Kerala Water Authority, Office of The Executive Engineer, P. H Division, Irinjalakuda. Pin-680121 Nature of work: JJM -2021-2022 – Meloor Grama Panchayath (Phase II) – Providing FHTCs to Rural Households by Augmentation of Existing Water supply schemes.		
5.	Name of the Supplier / Contractor	:	Sri Parambi Constructions , XII/515, Koratty Kizhakummry, Thrissur.		
6.	Supplier Order No. & Date (if any)	1:			
7.	Name and address of the Manufacturer / Inspection site	1	M/s.A N D Valves and Castings India Private Limited, 12 th Km, Palakad Main road, Madukkarai, Coimbatore-641105		
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	1	AND/001/CIPET/23-24 dated 01.04.2023		
9.	PDI Cell Assignment No. & Date	:	CIPET/HO/2023240094 dated : 08.04.2023		
10.	Date of inspection	:	Initiated on: 10.04.2023	Completed on: 12.04.203	
11.	Any other information	:	Manufacturer BIS License No. CM/L- 6500061705 Brand name: Mercury		

Quantity Quantity Quantity Accepted Quantity Quantity offered for Quantity No. Description of the as per Inspected Inspection in meter Rejected Balance in items supplier earlier meters in meter In meter order in (Cumulative)in meters meters HDPE Pipes as per IS 4984: 2016 with IS Certification Mark 21200 21200 110mm dia PE 100 PN8

36877 (141 nos X 150 meter+ 15677 HDPE PIPES SDR 17 1 X 50 meter)



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 Ref.No.: IB00423240500061/1 dated 12/04/2023 are enclosed.

2. This inspection report is valid for 30 days and 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 (T Nagarajan & 819)

Nil

Nil

(141 nos X 150 meter+

1 X 50 meter)

CC: 1. M /s A N D Valves and Castings India Pvt Ltd 2. Sri Parambi Construction-Contractor 3, EE, KWA 4, CIPET - Kochi

केन्द्रीय पेट्रोरसायन अभियांत्रिकी एवं प्रौद्योगिकी संस्थान (सिपेट)

(पूर्व में केन्द्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान) मुख्यालय, पीडीआई सेल

रसायन एवं पेटो रसायन विभाग

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

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CIPET/QF/7742

Dated: 12.04.2023

W.O. Centre: Kochi

Camp. at: M/s. A N D Valves and Castings India Pvt Ltd

INSPECTION DOCUMENTS

110mm PE 100 PN8 SDR 17

Inspection Document NO.: : IB00423240500061/1

Name of Inspecting Official: T Nagarajan

Issued to: M/s. The Executive Engineer, Kerala Water Authority, Office of The Executive Engineer, P. H Division, Irinjalakuda. Pin-680121 Manufacturer / Supplier Inspection Call Letter No. & Date: AND/001/CIPET/23-24 dated 01.04.2023 Test report as per IS 4984:2016 (Latest Amendment)

: HDPE Pipe

PART - A: PARTICULRS OF STORES

: 819

Description of the items

Grade/Variety/Type/Size/Class etc.

C) Declared Value, if any

Quantity

Code No.

Item omitted from the original scope of work if any

Any Other Information 20230311001A,20230311001B

Batch Numbers

21200 (141 nos X 150 meter+1 X 50 meter)

Nil

20230308001A,20230308001B,20230309001A,20230309001B,20230310001A,20230310001B,

PART B: SUPPLEMENTARY INFORMATION

a) Reference to sampling procedure : As per IS:4984 -2016 with latest amendment (Random Sampling)

PART C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS Clause SI. Tests Witnessed Unit Specified Requirements Observed Results No No. 6.2 Colour of pipe Black Black Dimension of Blue Stripes 2 6.2.1 Mm Min. 3.0 3 42 Depth Mm Max. 0.2 0.18 The Internal & External surfaces shall be smooth, clean and free from grooving and other defects. Ends shall be Visual Appearance Satisfactory 7.1 3 cleanly cut and shall be square with the axis of the pipe Out of Squareness Mm Max. 3.0 1.54 Length of straight pipe Not Applicable 7.4 Dimensions of Pipe Outside Diameter 7411 Minimum Mm 110 0 110 14 Table-3 Maximum Mm 110.7 110.44 4 Wall Thickness 7.4.1.1 Minimum Mm 6.5 6.55 Table-4 Maximum Mm 7.3 7.16 7412 Ovality Mm Max.2.2 1.14 8 Performance Requirement Hydraulic Characteristic (IPCR) The sample shall show no signs of localized swelling, 8.1.1 No Sign of Failure Observed Acceptance Test 48 hrs at 80°C leakage or weeping and shall not burst during the Table-5 during test duration. @ 5.7 MPa Induced Stress Test Duration 82 Longitudinal Reversion Test % Max ± 3 % 1 17 5 Carbon Black Content 2.5 ± 0.5 2 30 8.3 Carbon Black Dispersion Satisfactory Satisfactory 8.4 Melt Flow Rate (190°C/5kgf) g/10min 0.20 to 1.10 0.252 8.5 Oxidation Induction Time Minutes ≥ 20.0 Base Density at 27°C 8.7 kg/m³ 930 to 960 949.6 8.9 Elongation at Break ≥ 350 592 MERCURY HDPE PIPE PE100 PN8 SDR17 DN110 10 Marking on Pipe

Marking are as per Standard IS 4984 2016 CM/L 6500061705 Review of Documents (if any) Clause Report Review Tests Parameters/ Documents Certificate/ Report No. & Date No. No. Issued by Remarks 5.2 Reviewed & Raw material property 1. 6.1.1 Batch no. 25040036 dt 28.09.2022 Sabic Confirmed Grade: Sabic P6006AD Table 8.1.1 2. Internal Pressure Creep Rupture Test of Pipe (at 27°C for 100 h) Annex E M/s Pioneer 3 Internal Pressure Creep Rupture Test of Pipe (at 80°C for 165 h) Do Report No: PTL/GEN/04117, Testing Reviewed & 4 Do Internal Pressure Creep Rupture Test of Pipe (at 80°C for 1000 h) Laboratory Confirmed Dated: 03.08.2022 5 8.6 Overall Migration New Delhi 6 8.1.2 Internal Pressure Creep Rupture Test of Joint Pipe (at 80° C for 48 h) 8.10 Slow Crack Growth Rate Test Sample submitted for Test report CIPET. 8.5 Oxidation Induction Time Date 12.04.2023 Madurai

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.

2. These witness result stated above relate Exclusive to the work order of the object(s) or the lot inspection.

3. Lab. Environmental Condition during the witness or Tests: Temperature 27± 2 °C & R.H. 65+5%. 4. Calibration Status of equipment's/Instruments are verified.

AUTHORIZED SIGNATORY (T Nagarajan & 819)