

केन्द्रीय पेट्रोसायन अभियांत्रिकी एवं प्रौद्योगिकी संस्थान

(पूर्व में केन्द्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

प्रधान कार्यालय, पी. डी. आई. सेल
रसायन एवं पेट्रो रसायन विभाग,
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
टी. पी. के. औद्योगिक इस्टेट, गिन्दी, 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)
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CIPET / QF / 7741

Name of the Inspecting Official: Sreeraj KS
Code No.: 1447

W.O.Centre: Kochi

Camp at: MIS VAJRA PLASTICS, XI/140A,IDA,ERUMATHALA PO,ALUVA

INSPECTION REPORT

1.	Report no: IB00422230502822	: 20.02.2023
2.	Name of the indenter / Consignee with detailed address	: The Executive Engineer, Office of the Executive Engineer, Kerala Water Authority, P.H Division, Irinjalakuda-680121
3.	Indenter Order No. & Date and Extension	: D4-2235/2022 Dated: 28.01.2023
4.	Details of the Consignee	: The Executive Engineer, Office of the Executive Engineer, Kerala Water Authority, P.H Division, Irinjalakuda-680121 Sub- JJM-Parappukkara Grama panchayath-Pipe line extension and Providing FHTC at Various places of Parappukkara Panchayath
5.	Name of the Supplier / Contractor	: Sri M.V.Viswanathan, Mecheril House, Binanipuram P.O,Edayar,Aluva
6.	Supplier Order No. & Date (if any)	: --
7.	Name and address of the Manufacturer / Inspection site	: M/s.Vajra Plastics, XI /140A,IDA,Erumathala(PO),Aluva,Ernakulam 683112
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	: VP20230216106(Revised) dated :16.02.2023
9.	PDI Cell Assignment No. & Date	: CIPET/HO/2022237477 Dated:18.02.2023
10.	Date of inspection	: Date of Initiation : 20.02.2022 Date of completion : 20.02.2022
11.	Any other information	: Manufacturer BIS License No. CML- 6864593 20mm 12.5kg/cm ² (CL6)-2023 01 03 001C,2023 02 06 001A 63mm 6kg/cm ² (CL3)-2023 02 01 003C 90mm 6kg/cm ² (CL3)-2023 02 02 006A,2023 02 13 006A

DETAILS OF THE STORES

Sl. No	Description of the items	Quantity as per order in meter	Quantity inspected earlier (Cumulative) in meter	Quantity offered for inspection in meter	Quantity Accepted in meter	Quantity Rejected in meter	Quantity Balance in meter
UPVC Pipes as per IS4985:2021 with ISI certification mark							
01	20mm UPVC pipes Class 6 (12.5kg/cm ²) Plain end for solvent cement jointing	124329 meters	NIL	32000 meters	32000 meters	NIL	92329 meters
02	63mm UPVC pipes Class 3 (6kg/cm ²) socketed for solvent cement jointing	4230 meters	NIL	1230 meters	1230 meters	NIL	3000 meters
03	90mm UPVC pipes Class 3 (6kg/cm ²) socketed for solvent cement jointing	10397 meters	NIL	6204 meters	6204 meters	NIL	4193 meters
Remarks: for Sl no 01 Hologram used-A2751197 to A2758530=5334 Nos				For Sl no 02&03 All accepted items are stamped thus-			

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 IB00422230502822 / 1 / 2 / 3 dated 20.02.2023
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.

AUTHORISED SIGNATORY
Sreeraj KS (Code:1447)
Kochi



CIPET / QF / 7742

INSPECTION DOCUMENT

Issued to : M/S VAGRA PLASTICS, #140A,IDA,ERUMATHALA PO,ALUVA
Manufacturer / Supplier Inspection Call Letter No.&date: VP20230216106(Revised)
INSPECTION DOCUMENT AS PER IS NO. / QAP NO. : 4985-2021

dated : 16.02.2023

DOC. NO. : IB00422230502822/1

DATE: 20.02.2023

PART - A: PARTICULARS OF STORES

- | | | |
|----|------------------------------------|--|
| a) | Description of the items | : UPVC pipes as per IS:4985-2021 |
| b) | Grade/Variety/Type/Size/Class etc. | : 20mm Class 5(12.5kg/cm ²)(Plain Ended) |
| c) | Declared Value, if any | : Nil |
| d) | Quantity | : 32000Mtrs/5333Nos X 6Mtr) (1Nos X 2Mtr) |
| e) | Any Other Information | : Batch Number : 2023 01 03 001C,2023 02 06 001A |

PART - B: SUPPLEMENTARY INFORMATION Nil

- a) Reference to sampling procedure IS 4985 : 2021 (Random Sampling Method)

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

Results of Witnessed Tests

Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	7.1	Dimension of pipes			
2	7.1.1.1	Mean outside diameter	mm	Min: 20.0, Max: 20.3	Min: 20.16, Max: 20.24
3	7.1.1.2	Diameter at any Point	mm	Min: 19.5, Max: 20.5	Min: 20.10, Max: 20.26
4	7.1.2	Wall thickness	mm	Min: 1.40, Max: 1.80	Min: 1.62, Max: 1.73
5	7.1.4.1	Effective length	meter	6.000 (min.)	6.020
6	7.2.1.1	Socket length	mm	-----	-----
		Mean Socket Inner Dia	mm	-----	-----
7	9.1	Pipe ends meant for solvent cementing	--	The ends of pipes meant for solvent cementing (both plain & bell ended) shall be cleanly cut & shall be reasonably square to the axis of the pipe or may be chamfered at the plain end	Satisfactory
8	10.1	Visual Appearance Color of the pipes	--	The Colour of the pipes shall be light grey. Slight variation in the appearance of the colour are permitted	Confirmed
9	10.1.1	Internal & external surfaces of the pipe	--	Internal & External surface of pipe shall be smooth, clear free from grooving & other defects.	Satisfactory
10	10.2	Opacity	%	0.2 (Max.)	0.06
11	10.4	Reversion test	%	+5 % (Max)	2.8
12	10.5	Vicat softening Temperature	°C	80° C (Min)	81.8
13	10.6	Density	g/cm ³	1.40 to 1.46	1.432
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	8.1
15	11.1	Hydrostatics characteristics 1 hr/ 27° C Acceptance Test: 4.19 X 1.25MPa.	--	The Pipe shall not fail during the prescribed test duration	confirmed
16	11.2	Resistance to External Blows at 0°C	%	Shall have a true impact rate of not more than 10%	confirmed (0/25)
17	13.1	Marking on each pipe	-	a) Manufacturer name or trade mark b) Outside Diameter c) Class of pipe and pressure rating d) Batch or lot number	a) sizar super b) 20mm c) CL5,52.375Kgt/cm ² d) 2023 01 03 001C 2023 02 06 001A
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Colour : Red / Blue / Green / Brown / Yellow / Black / Pink	Black
	13.1.2	Blue Strip (for Type A)	-	The pipe for water supply, Type A shall additionally bear continuous longitudinal blue colour strip printing and this longitudinal blue colour strip shall be so placed as to not merge / disturb the information marked on the pipes as per 13.1	confirmed
	13.1.3	Lot number / batch number	-	shall include the details of production as per clause 13.1.3 (12 digit lot / batch number)	confirmed
	13.2	BIS Certification marking	-	Marking with CML- 6864593	confirmed

Handwritten signature and date: 20.02.2023



CIPET / QF / 7742

INSPECTION DOCUMENT

Issued to : **M/S VAGRA PLASTICS, IV140A, JDA, ERUMATHALA PO, ALUVA**

Manufacturer / Supplier Inspection Call Letter No. & date: **VP20230216106 (Revised)**

dated : **16.02.2023**

INSPECTION DOCUMENT AS PER IS NO. / QAP NO. : **4985-2021**

DOC. NO. : **IB00422230502822/2**

DATE: **20.02.2023**

PART - A: PARTICULARS OF STORES

a. Description of the items

b. Grade/Variety/Type/Size/Class etc.

c. Declared Value, if any

d. Quantity

e. Any Other Information

UPVC pipes as per IS:4985-2021

63mm Class 3(5kg/m²)(Socket Ended)

Nil

1230Mtrs(205Nos X 6Mtr)

Batch Number : 2023 02 01 003C

PART - B: SUPPLEMENTARY INFORMATION : Nil

b) Reference to sampling procedure

IS 4985 : 2021 (Random Sampling Method)

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

Results of Witnessed Tests

Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	7.1	Dimension of pipes			
2	7.1.1.1	Mean outside diameter	mm	Min: 63.0, Max: 63.3	Min: 63.18, Max: 63.24
3	7.1.1.2	Diameter at any Point	mm	Min: 62.2, Max: 63.8	Min: 63.10, Max: 63.32
4	7.1.2	Wall thickness	mm	Min: 2.20, Max: 2.70	Min: 2.34, Max: 2.46
5	7.1.4.1	Effective length	meter	6.000 (min.)	6.010
6	7.2.1.1	Socket length	mm	37.5	54
		Mean Socket Inner Dia	mm	Min: 63.1, Max: 63.3	Min: 63.20, Max: 63.22
7	9.1	Pipe ends meant for solvent cementing	--	The ends of pipes meant for solvent cementing (both plain & bell ends) shall be cleanly cut & shall be reasonably square to the axis of the pipe or may be chamfered at the plain end	Satisfactory
8	10.1	Visual Appearance Color of the pipes	--	The Colour of the pipes shall be light grey. Slight variation in the appearance of the colour are permitted	Confirmed
9	10.1.1	Internal & external surfaces of the pipe	--	Internal & External surface of pipe shall be smooth, clean free from grooving & other defects	Satisfactory
10	10.2	Opacity	%	0.2 (Max.)	0.04
11	10.4	Reversion test	%	±5 % (Max)	3.4
12	10.5	Vicat softening Temperature	°C	80° C (Min)	81.9
13	10.6	Density	g/cm ³	1.40 to 1.45	1.443
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	10.00
15	11.1	Hydrostatic characteristics 1 hr/ 27° C Acceptance Test: 4.19 X 0.6MPa	--	The Pipe shall not fail during the prescribed test duration	confirmed
16	11.2	Resistance to External Blows at 0°C	%	Shall have a true impact rate of not more than 10%	confirmed (0/25)
17	13.1	Marking on each pipe	-	a). Manufacturer name or trade mark b). Outside Diameter c). Class of pipe and pressure rating d). Batch or lot number	a). aizer super b). 20mm c). CL3.25.14kg/m ² d). 2023 02 01 003C
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Colour : Red / Blue / Green / Brown / Yellow / Black / Pink	Green
	13.1.2	Blue Strip (for Type A)	-	The pipe for water supply, Type A shall additionally bear continuous longitudinal blue colour strip printing and this longitudinal blue colour strip shall be so placed as to not merge / disturb the information marked on the pipes as per 13.1	confirmed
	13.1.3	Lot number / batch number	-	shall include the details of production as per clause 13.1.3 (12 digit lot / batch number)	confirmed
	13.2	BIS Certification marking	-	Marking with CML- 6864593	confirmed

Handwritten signature and date: 20.02.23

अभियांत्रिकी एवं

स्थान

पेट्रोकेमिकल इंजीनियरिंग एवं तकनीकी संस्थान)

मुख्यालय, पी. डी. आई. मेलू

एवं पेट्रो रसायन विभाग,

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CIPET / QF / 7742

INSPECTION DOCUMENT

Issued to : M/S VAGRA PLASTICS, II/140A,IDA,ERUMATHALA PO,ALUVA
Manufacturer / Supplier Inspection Call Letter No.&date: VP20230216106(Revised)
INSPECTION DOCUMENT AS PER IS : NO. / QAP NO. : 4985-2021

dated :16.02.2023

DOC. NO: IB00422230502822 /3

DATE 20.02.2023

PART - A: PARTICULARS OF STORES

a. Description of the items

b. Grade/Variety/Type/Size/Class etc.

c. Declared Value, if any

d. Quantity

e. Any Other Information

: UPVC pipes as per IS 4985-2021

: 90mm Class 3(6kg/cm²)(Socket Ended)

: NI

: 5204Mtrs(1034Nos X 5Mtr)

: Batch Number : 2023 02 02 006A,2023 02 13 006A

PART - B: SUPPLEMENTARY INFORMATION :NI

c) Reference to sampling procedure

:IS 4985 : 2021 (Random Sampling Method)

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

Results of Witnessed Tests

Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1	7.1	Dimension of pipes			
2	7.1.1.1	Mean outside diameter	mm	Min: 90.0, Max: 90.3	
3	7.1.1.2	Diameter at any Point	mm	Min: 88.9, Max: 91.1	Min: 90.20, Max: 90.22
4	7.1.2	Wall thickness	mm	Min: 3.10, Max: 3.70	Min: 90.10, Max: 90.36
5	7.1.4.1	Effective length	meter	6.000 (min.)	Min: 3.20, Max: 3.40
6	7.2.1.1	Socket length	mm	51	6.020
		Mean Socket Inner Dia	mm	51	64
7	9.1	Pipe ends meant for solvent cementing	--	The ends of pipes meant for solvent cementing (both plain & bell ended) shall be cleanly cut & shall be reasonably square to the axis of the pipe or may be chamfered at the plain end	Satisfactory
8	10.1	Visual Appearance Color of the pipes	--	The Colour of the pipes shall be light grey. Slight variation in the appearance of the colour are permitted	Confirmed
9	10.1.1	Internal & external surfaces of the pipe	--	Internal & External surface of pipe shall be smooth, clean free from grooving & other defects	Satisfactory
10	10.2	Opacity	%	0.2 (Max.)	
11	10.4	Reversion test	%	+5 % (Max)	0.02
12	10.5	Vicat softening Temperature	°C	80° C (Min)	3.6
13	10.6	Density	g/cm ³	1.40 to 1.46	82.1
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	1.448
15	11.1	Hydrastatic characteristics 1 hr/ 27° C Acceptance Test : 4.19 X 0.6MPa	--	The Pipe shall not fail during the prescribed test duration	10.4 confirmed
16	11.2	Resistance to External Blows at 0°C	%	Shall have a true impact rate of not more than 10%	confirmed (0/25)
17	13.1	Marking on each pipe	-	a). Manufacturer name or trade mark b). Outside Diameter c). Class of pipe and pressure rating d). Batch or lot number	a). aizar super b). 90mm c). CL3.25.14kg/cm ² d). 2023 02 02 006A 2023 02 13 006A
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Colour : Red / Blue / Green / Brown / Yellow / Black / Pink	Green
	13.1.2	Blue Strip (for Type A)	-	The pipe for water supply, Type A shall additionally bear continuous longitudinal blue colour strip printing and this longitudinal blue colour strip shall be so placed as to not merge / disturb the information marked on the pipes as per 13.1	confirmed
	13.1.3	Lot number / batch number	-	shall include the details of production as per clause 13.1.3 (12 digit lot / batch number)	confirmed
	13.2	BIS Certification marking	-	Marking with: CML- 6864593	confirmed

अभियांत्रिकी एवं

स्थान

पेट्रोकेमिकल इंजीनियरिंग एवं तकनीकी संस्थान

मुख्यालय, पी. डी. आर्ट. सेल

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CIPET / QF / 7742

DATE: 18.02.2023

INSPECTION DOCUMENT

Issued to : M/S VAJRA PLASTICS, XI/140A, IDA, ERUMATHALA PO, ALUVA

Manufacturer / Supplier Inspection Call Letter No. & date: VP20230216108 (Revised)

INSPECTION DOCUMENT AS PER IS NO. / QAP NO. : 4985-2021


dated : 16.02.2023

DOC. NO. : IB00422230502822

Review of Documents (if any):					
Sl. No.	Clause No. / QAP Sl. No.	Test Parameters / Documents	Certificate / Report No. & Date	Certificate / Report Issued by	Review / Remarks
1	6.1.1	VCM content	Lotnumber-22813, dt.02.01.2023		
2	6.1.2	K-value	Lotnumber- 22956 dt.02.02.2023 Lotnumber- 22956 dt.02.02.2023 Lotnumber- 22968 dt.07.02.2023 Lotnumber- 22977 dt.10.02.2023	ChemplastCuddaloreVinyls Ltd,	Reviewed
3	10.3	Effect on Water	Test Report No.22542 dtd 12.10.2022	CIPETkochi	Reviewed
4	11.1	Hydrostatic Characteristics Type Test : 1000 hour at 60° C	Test Report No.22147 dtd 25.05.2022	CIPETkochi	Reviewed

PART - D: REMARKS

1. This inspection document shall not be reproduced except in full without the written approval of the PDI Cell at CIPET Head Office, Chennai.
2. These witness results relate exclusively to the work ordered or the object (s) or the lot inspected.
3. Lab. Environmental Condition during the witness of tests: Temperature 27± 2 °C & Relative Humidity 65±5%.


AUTHORISED SIGNATORY
SREERAJ KS (Code: 1447)