

**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

पी. डी. के. औद्योगिक इस्टेट, गुन्दी, चेन्नई - 600 032

सूचना : 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)

E-mail : pdiho@cipet.gov.in

CIPET / QF / 7741

Name of the Inspecting Official: Dr. Manjula K S

W.O. Centre : Kochi

Code No.: 1016

Camp at: Ms. Vajra Plastics, Erumathala P.O, Aluva - 683 112

**INSPECTION REPORT**

1	Ref No: IB00422230502680	Date	08-02-2023
2	Name of the Indenter / Consignee with detailed address	Executive Engineer, KWA, P.H Division, Irinjakkuda - 680121.	
3	Indenter Order No. & Date and Extension	No. D4-2235/2022, Dated: 28.01.2023	
4	Details of the Consignee	Office of the Executive Engineer, KWA, P.H Division, Irinjakkuda - 680121 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, Medheri House, Binanipuram P.O, Edayar, Aluva.	
6	Supplier Order No. & Date (if any)	-	
7	Name and address of the Manufacturer / Inspection site	Ms. Vajra Plastics, XI / 140 A, Industrial Development Area, Erumathala P.O., Aluva, Ernakulam District, Kerala - 683 112	
8	Manufacturer / Supplier Inspection Call Letter No. & Date	VP20230202105, Dated: 02.02.2023	
9	PDI Cell Assignment No. & Date	CIPET/HD/2022237112 Dated 06.02.2023	
10	Date of inspection	Date of Initiation	06.02.2023
		Date of Completion	09.02.2023
11	Any other information	Manufacturer BIS License No. CML - 6864593, batch numbers: (20 mm CI 6) 2023 01 30 001 C (110 mm CI 3) 2023 01 31 006 A (63 mm CI 3) 2023 02 01 003 C (90 mm CI 3) 2023 02 02 006 A (75 mm CI 3) 2023 01 30 003 C 2023 01 09 003 B (50 mm CI 3) 2023 02 01 002 A (160 mm CI 3) 2022 12 30 005 C 2023 02 01 005 C (140 mm CI 3) 2023 01 30 006 B	

**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							
1	20 mm class 0 ( 12.5 kg/cm <sup>2</sup> ) UPVC pipes Plain end for solvent cement jointing	124329 Meters	NIL	18000 Meters ( 3000 Nos x 6 Mtrs ) ( 0 No x 0 Mtrs )	18000 Meters	NIL	106329
2	110 mm class 3 ( 6 kg/cm <sup>2</sup> ) UPVC pipes Socket ended for solvent cement jointing	1859 Meters	NIL	1869 Meters ( 311 Nos x 6 Mtrs ) ( 1 No x 3 Mtrs )	1869 Meters	NIL	NIL
3	63 mm class 3 ( 6 kg/cm <sup>2</sup> ) UPVC pipes Socket ended for solvent cement jointing	4230 Meters	NIL	3000 Meters ( 500 Nos x 6 Mtrs ) ( 1 No x 2 Mtrs )	3000 Meters	NIL	1230
4	90 mm class 3 ( 6 kg/cm <sup>2</sup> ) UPVC pipes Socket ended for solvent cement jointing	10397 Meters	NIL	1800 Meters ( 300 Nos x 6 Mtrs ) ( 0 No x 0 Mtrs )	1800 Meters	NIL	8597
5	75 mm class 3 ( 6 kg/cm <sup>2</sup> ) UPVC pipes Socket ended for solvent cement jointing	8974 Meters	NIL	4500 Meters ( 750 Nos x 6 Mtrs ) ( 0 No x 0 Mtrs )	4500 Meters	NIL	4474
6	50 mm class 3 ( 6 kg/cm <sup>2</sup> ) UPVC pipes Socket ended for solvent cement jointing	10914 Meters	NIL	5000 Meters ( 833 Nos x 6 Mtrs ) ( 1 No x 2 Mtrs )	5000 Meters	NIL	5914
7	140 mm class 3 ( 6 kg/cm <sup>2</sup> ) UPVC pipes Socket ended for solvent cement jointing	831 Meters	NIL	831 Meters ( 138 Nos x 6 Mtrs ) ( 1 No x 3 Mtrs )	831 Meters	NIL	NIL
8	160 mm class 3 ( 6 kg/cm <sup>2</sup> ) UPVC pipes Socket ended for solvent cement jointing	2412 Meters	NIL	1500 Meters ( 250 Nos x 6 Mtrs )	1500 Meters	NIL	912

रसायन अभियांत्रिकी एवं

की संस्थान

(कन्द्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

स्थान कार्यालय, पी. डी. आई. सेल्

रसायन एवं पेट्रो रसायन विभाग,

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

टी. सी. 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)

E-mail : pdiho@cipet.gov.in

Remarks : All accepted items are stamped thus-

Hologram : A2761840 to A2764839 (20 mm class 6 = 3000 Nos)

Hologram : A2764840 to A2765673 (50 mm class 3 = 834 Nos)



CIPET / PDI / 2022-23

KOC / 023 / 1016

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 No B00422230502680 / 1 2 3 4 5 6 7 8

Dated 08-02-2023 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.

CC: 1. Manufacturer, 2. Contractor, 3. CIPET - Kochi, 4. Consignee

  
Dr. Manjula K S (Code : 1016)  
Authorised Signatory



CIPET / QF / 7742

Issued to

Manufacturer / Supplier Inspection Call Letter No

INSPECTION DOCUMENT AS PER IS: ISOIAP NO:

DOC. NO

**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

**PART - B: SUPPLEMENTARY INFORMATION**

- a Reference to sampling procedure

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

**Results of Witnessed Tests**

**INSPECTION DOCUMENT**

M/s. Vajra Plastics, XI / 140 A, Industrial Development Area, Ennumathala P.O., Aluva/Emakulam District, Kerala - 683 112

VP20230202105, Dated: 02.02.2023

4985-2021

DATE: 08-02-2023

IB00422230502680

UPVC pipes as per IS:4985-2021

20 mm class 6 ( 12.5 kg/cm<sup>2</sup> ) Plain end for solvent cement jointing

Nil

18000 Mtrs ( 3000 Nos x 6 Mtrs ) ( 0 No x 0 Mtr )

Batch Number 2023 01 30 001 C

Nil

IS 4985 : 2021 ( Random Sampling Method)

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: 20.02 max: 20.28
4	7.1.2	Wall thickness	mm	min: 1.40 max: 1.8	min: 1.59 max: 1.73
5	7.1.4.1	Effective length	meter	min: 6.000	min: 6.015
6	7.2.1.1	Socket length	mm	min:	min:
		Mean Socket Inner Dia	mm	min: max:	min: max:
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	Light Grey, 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)	0.05
11	10.4	Reversion test	%	-/- 5% (max)	4.3
12	10.5	Vicat softening Temperature	°C	80° C (Min)	81.4
13	10.8	Density	g/cm <sup>3</sup>	1.40 to 1.46	1.429
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	8.05
15	11.1	Hydrostatics characteristics 4.19 X 1.25 MPa	-	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)
	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). 20 mm c). Class-6 (12.5 kg/cm <sup>2</sup> ) d). 2023 01 30 001 C
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Plumbing : Red / Blue / Green / Brown / Yellow / Black / Pink	Black, Confirmed
17	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	Blue Strip, 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 CM / L No: 6864593	Marked with CM / L No : 6864593

केन्द्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान )  
प्रधान कार्यालय, पी. डी. आई. सेल  
रसायन एवं पेट्रो रसायन विभाग,  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार  
टी. वी. के. औद्योगिक इस्टेट, मिडी, चेन्नई - 600 032  
दूरभाष : 044-29813708 (Direct) /044-22254780 (Extn-502)  
ई-मेल : pdiho@cipet.gov.in



**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



**CIPET / QF / 7742**

Issued to  
Manufacturer / Supplier Inspection Call Letter No  
INSPECTION DOCUMENT AS PER IS - NO/QAP NO  
DOC. NO

**INSPECTION DOCUMENT**

M/s. Vajra Plastics, X/140 A, Industrial Development Area, Erumathala P.O., Aluva, Ernakulam District, Kerala - 683 112  
VP20230202105, Dated: 02.02.2023  
4985-2021  
IB00422230502680

DATE: 08-02-2023

**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  
**110 mm class 3** ( 6.0 kg/cm<sup>2</sup> ) Socket ended for solvent cement jointing  
Nil  
**1869 Mtrs** ( 311 Nos x 6 Mtrs ) ( 1 No x 3 Mtr )  
**Batch Number** 2023 01 31 006 A

**PART - B: SUPPLEMENTARY INFORMATION**  
a Reference to sampling procedure

Nil  
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: 110.0 max: 110.4	min: 110.30 max: 110.35
3	7.1.1.2	Diameter at any Point	mm	min: 108.5 max: 111.4	min: 110.04 max: 110.4
4	7.1.2	Wall thickness	mm	min: 3.70 max: 4.3	min: 3.83 max: 3.95
5	7.1.4.1	Effective length	meter	min: 6.000	min: 6.028
6	7.2.1.1	Socket length	mm	min: 81	min: 75.0
		Mean Socket Inner Dia	mm	min: 110.1 max: 110.4	min: 110.24 max: 110.36
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	Light Grey, 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)	0.00
11	10.4	Reversion test	%	+/- 5% (max)	2.9
12	10.5	Vicat softening Temperature	°C	80° C ( Min)	82.5
13	10.6	Density	g/cm <sup>3</sup>	1.40 to 1.46	1.432
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	10.4
15	11.1	Hydrostatics characteristics 4.19 X 0.60 MPa.	-	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)
	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). 110 mm c). Class-3 (6 kg/cm <sup>2</sup> ) d). 2023 01 31 006 A
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Plumbing : Red / Blue / Green / Brown / Yellow / Black / Pink	Green, Confirmed
17	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	Blue Strip, 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 CM / L No : 6864593	Marked with CM / L No : 6864593

*Manjula K S*  
Dr. Manjula K S (Code : 1016)  
Authorised Signatory



**CIPET / QF / 7742**

Issued to

Manufacturer / Supplier Inspection Call Letter No

INSPECTION DOCUMENT AS PER IS 9010/QAP NO:

DOC. NO

**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

**PART - B: SUPPLEMENTARY INFORMATION**

- a Reference to sampling procedure

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

**INSPECTION DOCUMENT**

M/s. Vajra Plastics, XI/140 A, Industrial Development Area, Erumathala P.O., Aluva, Ernakulam District, Kerala - 683 112

VP20230202105, Dated: 02.02.2023

4985-2021

IB00422230502680

DATE: 08-02-2023

UPVC pipes as per IS:4985-2021

63 mm class 3 ( 6.0 kg/cm<sup>2</sup>) Socket ended for solvent cement jointing

Nil

3000 Mtrs ( 500 Nos x 6 Mtrs ) ( 0 No x 0 Mtr )

Batch Number 2023 02 01 003 C

Nil

IS 4985 : 2021 ( Random Sampling Method)

**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: 63.23 max: 63.27
3	7.1.1.2	Diameter at any Point	mm	min: 62.2 max: 63.8	min: 63.08 max: 63.28
4	7.1.2	Wall thickness	mm	min: 2.20 max: 2.7	min: 2.39 max: 2.42
5	7.1.4.1	Effective length	meter	min: 6.000	min: 6.020
6	7.2.1.1	Socket length	mm	min: 37.5	min: 50.0
		Mean Socket Inner Dia	mm	min: 63.1 max: 63.3	min: 63.16 max: 63.22
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	Light Grey, 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)	0.06
11	10.4	Reversion test	%	+/- 5% (max)	3.22
12	10.5	Vicat softening Temperature	°C	80° C ( Min)	81.9
13	10.6	Density	g/cm <sup>3</sup>	1.40 to 1.46	1.439
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	10.1
15	11.1	Hydrostatics characteristics 4.19 X 0.60 MPa	-	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). Aizar Super b). 63 mm c). Class-3 (6 kg/cm <sup>2</sup> ) d). 2023 02 01 003 C
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Plumbing : Red / Blue / Green / Brown / Yellow / Black / Pink	Green, Confirmed
	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	Blue Strip, 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 CM / L No : 6864593	Marked with CM / L No : 6864593

*Manjula K S*  
 Dr. Manjula K S (Code 1016)  
 Authorised Signatory



CIPET / QF / 7742

Issued to

Manufacturer / Supplier Inspection Call Letter No

INSPECTION DOCUMENT AS PER IS : ISO/IEC 17020

DOC. NO

**INSPECTION DOCUMENT**

M/s. Vajra Plastics, X/ 140 A, Industrial Development Area, Ennathala P.O., Aluva, Ernakulam District, Kerala - 683 112

VP20230202105, Dated: 02.02.2023

4985-2021

DATE: 08-02-2023

IB00422230502680

**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

90 mm class 3 ( 6.0 kg/cm<sup>2</sup>) Socket ended for solvent cement jointing

NI

1800 Mtrs ( 300 Nos x 6 Mtrs ) ( 0 No x 0 Mtr )

Batch Number

2023 02 02 006 A

**PART - B: SUPPLEMENTARY INFORMATION**

- 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: 90.0 max: 90.3	min: 90.20 max: 90.24
3	7.1.1.2	Diameter at any Point	mm	min: 88.9 max: 91.1	min: 89.06 max: 90.38
4	7.1.2	Wall thickness	mm	min: 3.10 max: 3.7	min: 3.27 max: 3.46
5	7.1.4.1	Effective length	meter	min: 6.000	min: 6.025
6	7.2.1.1	Socket length	mm	min: 51	min: 60.0
		Mean Socket Inner Dia	mm	min: 90.1 max: 90.3	min: 90.11 max: 90.3
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	Light Grey, 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)	0.07
11	10.4	Reversion test	%	+/- 5% (max)	2.7
12	10.5	Vicat softening Temperature	°C	80° C ( Min)	82.3
13	10.6	Density	g/cm <sup>3</sup>	1.40 to 1.46	1.441
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	10.12
15	11.1	Hydrostatic characteristics 4.19 X 0.60 MPa.	-	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)
	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). Azar Super b). 90 mm c). Class-3 (6 kg/cm <sup>2</sup> ) d). 2023 02 02 006 A
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Plumbing : Red / Blue / Green / Brown / Yellow / Black / Pink	Green, Confirmed
17	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	Blue Strip, 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 CM / L No: 5864593	Marked with CM / L No : 6864593



CIPET / QF / 7742

Issued to

Manufacturer / Supplier Inspection Call Letter No

INSPECTION DOCUMENT AS PER IS 9001:2015

DOC. NO

**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

**PART - B: SUPPLEMENTARY INFORMATION**

- a Reference to sampling procedure

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

**Results of Witnessed Tests**

Sl. No	Clause No./ GAP 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: 75.0 max: 75.3	min: 75.11 max: 75.28
3	7.1.1.2	Diameter at any Point	mm	min: 74.1 max: 75.9	min: 75.00 max: 75.36
4	7.1.2	Wall thickness	mm	min: 2.60 max: 3.1	min: 2.51 max: 2.88
5	7.1.4.1	Effective length	meter	min: 6.000	min: 6.010
6	7.2.1.1	Socket length	mm	min: 43.5	min: 50.0
		Mean Socket Inner Dia	mm	min: 75.1 max: 75.3	min: 75.16 max: 75.26
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	Light Gray, 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)	3.5
12	10.5	Vicat softening Temperature	°C	80° C (Min)	81.9
13	10.6	Density	g/cm <sup>3</sup>	1.40 to 1.48	1.44
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	10.1
15	11.1	Hydrostatics characteristics 4.19 X 0.60 MPa.	-	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)
	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). 75 mm c). Class-3 (8 kg/cm <sup>2</sup> ) d). 2023 01 30 003 C, 2023 01 09 003 B
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Plumbing : Red / Blue / Green / Brown / Yellow / Black / Pink	Green, Confirmed
	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	Blue Strip, 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 CM / L No : 6864593	Marked with CM / L No : 6864593

**INSPECTION DOCUMENT**

M/s. Vajra Plastics, XI / 140 A, Industrial Development Area, Erumthala P.O., Aluva, Ernakulam District, Kerala - 683 112

VP20230202105, Dated: 02.02.2023

4985-2021

IB00422230502680

DATE: 08-02-2023

UPVC pipes as per IS:4985-2021

75 mm class 3 ( 6.0 kg/cm<sup>2</sup> ) Socket ended for solvent cement jointing

Nil

4500 Mtrs ( 750 Nos x 6 Mtrs ) ( 0 No x 0 Mtr )

Batch Number 2023 01 30 003 C 2023 01 09 003 B

Nil

IS 4985 : 2021 ( Random Sampling Method)



**CIPET / QF / 7742**

Issued to

Manufacturer / Supplier Inspection Call Letter No

INSPECTION DOCUMENT AS PER IS : NO/QAP NO:

DOC. NO

**INSPECTION DOCUMENT**

Ms. Vajra Plastics, XI / 140 A, Industrial Development Area, Enmathala P.O., Aluva, Ernakulam District, Kerala - 683 112

VP20230202105, Dated: 02.02.2023

4985-2021

DATE: 08-02-2023

IB00422230502680

**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

50 mm class 3 | 6.0 kg/cm<sup>2</sup> Socket ended for solvent cement jointing

NI

5000 Mtrs ( 50 Nos x 6 Mtrs ) ( 1 No x 2 Mtr )

Batch Number

2023 02 01 002 A

**PART - B: SUPPLEMENTARY INFORMATION**

- a Reference to sampling procedure

NI

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: 50.0 max: 50.3	min: 50.25 max: 50.28
3	7.1.1.2	Diameter at any Point	mm	min: 49.4 max: 50.6	min: 50.05 max: 50.3
4	7.1.2	Wall thickness	mm	min: 1.70 max: 2.1	min: 1.83 max: 1.9
5	7.1.4.1	Effective length	meter	min: 6.000	min: 6.018
6	7.2.1.1	Socket length	mm	min: 31	min: 39.0
		Mean Socket inner Dia	mm	min: 50.1 max: 50.3	min: 50.14 max: 50.25
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 Colour of the pipes	-	The Colour of the pipes shall be light grey. Slight variation in the appearance of the colour are permitted	Light Grey, 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)	3.8
12	10.5	Vicat softening Temperature	°C	80° C ( Min)	82.1
13	10.6	Density	g/cm <sup>3</sup>	1.40 to 1.46	1.415
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	10.03
15	11.1	Hydrostatics characteristics 4.19 X 0.60 MPa.	-	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). Aizar Super b). 50 mm c). Class-3 (6 kg/cm <sup>2</sup> ) d). 2023 02 01 002 A
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Plumbing : Red / Blue / Green / Brown / Yellow / Black / Pink	Green, Confirmed
	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	Blue Strip, 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 CM / L No : 6864593	Marked with CM / L No : 6864593

*Manjula K S*  
Dr. Manjula K S (Code: 1016)  
Authorised Signatory





CIPET / QF / 7742

**INSPECTION DOCUMENT**

Issued to  
Manufacturer / Supplier Inspection Call Letter No  
INSPECTION DOCUMENT AS PER IS-ISO/IEC NO. QAP NO.  
DOC. NO

M/s. Vaja Plastics, XI / 140 A, Industrial Development Area, Erumathala P.O., Aluva, Ernakulam District, Kerala - 683 112  
VP20230202105, Dated: 02.02.2023  
4985-2021  
**ID00422230502680**

DATE: 08-02-2023

**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  
**140 mm class 3** ( 6.0 kg/cm<sup>2</sup>) Socket ended for solvent cement jointing  
Nil  
**831 Mtrs** ( 138 Nos x 6 Mtrs ) ( 1 No x 3 Mtr )  
**Batch Number** 2023 01 30 005 B

**PART - B: SUPPLEMENTARY INFORMATION**

- a Reference to sampling procedure

Nil  
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: 140.0 max: 140.5	min: 140.46 max: 140.48
3	7.1.1.2	Diameter at any Point	mm	min: 138.3 max: 141.7	min: 140.06 max: 140.52
4	7.1.2	Wall thickness	mm	min: 4.80 max: 5.5	min: 4.98 max: 5.22
5	7.1.4.1	Effective length	meter	min: 6.000	min: 6.026
6	7.2.1.1	Socket length Mean Socket Inner Dia	mm	min: 76 min: 140.2 max: 140.5	min: 94.0 min: 140.42 max: 140.46
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	Light Grey, 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)	0.00
11	10.4	Reversion test	%	+/- 5% (max)	2.8
12	10.5	Vicat softening Temperature	°C	80° C ( Min)	83.1
13	10.6	Density	g/cm <sup>3</sup>	1.40 to 1.46	1.4436
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	10.6
15	11.1	Hydrostatics characteristics 4.19 X 0.60 MPa	-	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 (025)
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). 140 mm c). Class-3 (6 kg/cm <sup>2</sup> ) d). 2023 01 30 005 B.
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Plumbing, Red / Blue / Green / Brown / Yellow / Black / Pink	Green, Confirmed
	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	Blue Strip, 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 CM / L No : 6864593	Marked with CM / L No : 6864593

*Manjula K S*  
Dr. Manjula K S (Code : 1016)



CIPET / QF / 7742

Issued to

Manufacturer / Supplier Inspection Call Letter No

INSPECTION DOCUMENT AS PER IS /NO/QAP NO:

DOC. NO

**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

**PART - B: SUPPLEMENTARY INFORMATION**

- a Reference to sampling procedure

**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: 160.0 max: 160.5	min: 160.46 max: 160.48
3	7.1.1.2	Diameter at any Point	mm	min: 158.0 max: 162	min: 160.10 max: 160.52
4	7.1.2	Wall thickness	mm	min: 5.40 max: 6.2	min: 5.72 max: 5.99
5	7.1.4.1	Effective length	meter	min: 6.000	min: 6.033
6	7.2.1.1	Socket length	mm	min: 85	min: 105.0
		Mean Socket Inner Dia	mm	min: 160.2 max: 160.5	min: 160.46 max: 160.48
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	Light Grey, 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)	0.00
11	10.4	Reversion test	%	+/- 5% (max)	2.5
12	10.5	Vicat softening Temperature	°C	80° C (Min)	83
13	10.6	Density	g/cm <sup>3</sup>	1.40 to 1.46	1.442
14	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	10.5
15	11.1	Hydrostatic characteristics 4.19 X 0.60 MPa	-	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)
	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) 160 mm c) Class-3 (6 kg/cm <sup>2</sup> ) d) 2022 12 30 005 C, 2023 02 01 005 C
	13.1.1	Colour of marking	-	Class - 1 / 2 / 3 / 4 / 5 / 6 Plumbing ; Red / Blue / Green / Brown / Yellow / Black / Pink	Green, Confirmed
17	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	Blue Strip, 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 CM / L No : 6864593	Marked with CM / L No : 6864593



CIPET / QF / 7742

Issued to:

INSPECTION DOCUMENT

M/s. Vajra Plastics, X/140 A, Industrial Development Area, Erumathala P.O., Aluva, Ernakulam District, Kerala - 683 112

Manufacturer / Supplier Inspection Call Letter No

VP20230202106, Dated: 02.02.2023

INSPECTION DOCUMENT AS PER IS. NO/QAP NO:  
DOC. NO

4985-2021  
IB00422230502680


DATE: 08-02-2023

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	Lot no 21722 Dated: 23-12-2022 Lot no 22907 Dated: 23-01-2023 Lot no 22924 Dated: 27-01-2023 Lot no 22936 Dated: 29-01-2023	Chemplast Cuddalore Vinyls Ltd.	Reviewed
2	6.1.2	K-value			
3	10.3	Effect on water	Test No 22542 dated 12.10.2022	CIPET, Kochi	Reviewed
4	11.1	Hydrostatic Characteristics Type Test: 1000 hour at 60° C	Test Report No 22147, Dtd: 25.05.2022	CIPET Kochi	Reviewed

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, 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: Temperature 27+2 °C & Relative Humidity 65+5%.
- calibration of equipments and instruments are verified.

  
Dr. Manjula K S (Code: 1016)  
Authorised Signatory