

**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  
डी. बी. के. औद्योगिक इस्टेट, गिन्दी, 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)

**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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**Name of the Inspecting Official:** Dr. S. Anbudayanidhi

**Camp at :** M/s. Classic Polymers

**Code No.:** 893

**W.O Centre :** CIPET, KOCHI

**INSPECTION REPORT**

1	Ref. No.: IB00422230502671	:	Date: 09.02.2023
2	Name of the indenter/ consignee with details address	:	Executive Engineer, Kerala Water Authority, P.H.Division, Irinjalakuda-680121
3	Scheme/Indenter Order No. & Date and extension (if any)	:	D5-1594/2022 Dated : 25.01.2023
4	Details of the consignee	:	Executive Engineer, Kerala Water Authority, P.H.Division, Irinjalakuda-680121
5	Name of the Supplier/ Contractor	:	Mr.M.V Viswanathan
6	Supplier Order No. & date (if any)	:	-
7	Name and address of the Manufacture/ inspection site	:	M/s. Classic Polymers, I <sup>st</sup> Phase, Plot No.57, Vasanthanasapura Industrial Area, Nagenahalli, Kora Hobli, Tumakuru, Karnataka-572128
8	Manufacturer/ Supplier inspection call Letter No. & Date	:	CP/KWA/MHMA/36/22-23/02 dated: 01-02-2023
9	PDI Cell Assignment No & Date	:	CIPET/HO/2022237169 Date : 06.02.2023
10	Date of Inspection	:	Initiated on:09.02.2023 Completed on: 09.02.2023
11	Any other Information (Project/Scheme of Work)	:	CM/L No. 6200157604 JJM-2021-22-Augmentation of CWSS to Nattika Firka-Phase II-Providing distribution net work and FHTC to Perinjnam panchayath

**DETAILS OF THE STORES**

Sl. No.	Description of the item	Quantity as per order in mtrs.	Quantity inspected earlier(Cumulative) in mtrs.	Quantity offered for inspection in mtrs.	Quantity Accepted in mtrs.	Quantity Rejected in mtrs.	Quantity Balance in mtrs.
<b>UPVC Pipes as per IS 4985:2021 With IS Certification Mark</b>							
1	75 mm UPVC pipes Class 3 (6 kg/cm <sup>2</sup> ) Socket ended for solvent cement jointing	7435	NIL	7435 (1240 No's X 6m Length )	7435 (1240 No's X 6m Length )	NIL	NIL
2	63 mm UPVC pipes Class 3 (6 kg/cm <sup>2</sup> ) Socket ended for solvent cement jointing	3455	NIL	3455 (576 No's X 6m Length )	3455 (576 No's X 6m Length )	NIL	NIL
3	50 mm UPVC pipes Class 3 (6 kg/cm <sup>2</sup> ) Socket ended for solvent cement jointing	1330	NIL	1330 (222 No's X 6m Length )	1330 (222 No's X 6m Length )	NIL	NIL
4	20 mm UPVC pipes Class 6 (12.5 kg/cm <sup>2</sup> ) Socket ended for solvent cement jointing	13020	NIL	13020 (2170 No's X 6m Length )	13020 (2170 No's X 6m Length )	NIL	NIL

**Remarks:** 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.: IB00422230502671/1 to 4 Dated : 09.02.2023 are enclosed.

2.This inspection reports is valid for 30 days and Dispute / discrepancies/ claims may be brought to the notice of the undersigned within 30days from the date of this report.

3.The Inspected Samples should be preserved by the manufacturer for 30 days from the date of this report.

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मुख्य कार्यालय, पी. डी. आई. सेल्  
सायन एवं पेट्रो रसायन विभाग,  
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**INSPECTION DOCUMENT**

Inspection Document No. : IB00422230502671/1 Dated : 09.02.2023  
Issued to : Executive engineer, KWA, Irinjalakuda  
Manufacturer / Supplier Inspection : CP/KWA/MHMA/36/22-23/02 Date: 04-02-2023  
Call Letter No. & Date  
AS PER IS NO. / QAP NO. : 4985:2021

**PART - A: PARTICULARS OF STORES**

Description of the items : UPVC pipes as per IS 4985:2021  
Grade/Variety/Type/Size/Class etc. : 75 mm UPVC Pipes 6 kg/cm<sup>2</sup> Class 3  
Declared Value, if any : Nil  
Quantity : 7435 Mtrs. (1240 No's X 6m Length)  
Any Other Information : Batch Numbers : 202302020021, 202302020022

**PART - B: SUPPLEMENTARY INFORMATION**

Reference to sampling procedure : IS 4985: 2021

**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.: 75.0, Max.: 75.3	Min.: 75.10, Max.: 75.23
3	7.1.1.2	Diameter at any Point	mm	Min.: 74.1, Max.: 75.9	Min.: 75.02, Max.: 75.22
4	7.1.2	Wall thickness	mm	Min.: 2.6, Max.:3.1	Min.: 2.65, Max.: 2.70
5	7.1.4.1	Effective length	meter	6.00 (min.)	6.007
6	7.2.1.1	Socket length	mm	43.5 (min.)	44.15
		Mean Socket Inner Dia.	mm	Min.: 75.1 Max.: 75.3	Min.: 75.16, Max.: 75.20
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	Pipes are Clearly cut and reasonably square to the axis
8	10.1	Visual Appearance Color of the pipes	--	The Colour of the pipes shall be light grey.	Conformed
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)	2.90
12	13.1.2	Longitudinal Blue Color Strip	No.	Minimum 1 No. required	Conformed

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Inspection Document No. IB00422230502671/1 Dated : 09.02.2023

Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
13	10.5	Vicat softening Temperature	°C	80° C ( Min)	84.90
14	10.6	Density	g/cm <sup>3</sup>	1.40 - 1.46	1.42
15	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	8.10
16	11.1	Hydrostatics characteristics 1 hr / 27° C	--	The Pipe shall not fail during the prescribed test duration	Conformed
17	11.2	Resistance to External Blows at 0° C	%	Shall have a true impact rate of not more than 10%	Conformed (0/25) TIR=0

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 & 6.1.2	VCM content of PVC Resin	Batch No.: 221203, 221204, 221205, 221206 Dt: 26-12-2022	Inner Mongolia Yihua Chemical Industry Co. Ltd	Reviewed
2	6.1	Calcium Carbonate	ZTIPA2212000436 Dated : 18-12-2022	Zantat Sdn Bhd, Malaysia	Reviewed
3	6.1	Titanium Dioxide	KMQA/PC/675/22 Dt: 06.08.2022	The Kerala Minerals and Metals Ltd	Reviewed
4	6.1	One Pack Stabiliser	80515402000001 Dated: 22-11-2022	Baerlocher India Additives Pvt Ltd,	Reviewed
5	10.3	Effect on Water	Test Report No.: 20967A Dated : 03.01.2023	CIPET Mysuru	Reviewed
6	11.1	Hydrostatic Characteristics: Type Test : 1000 hour at 60° C	Test Report No.: 10126481/2022/SS/ 3_1 Dated: 29.10.2022	M/s. Kailtech Test and Research Centre Pvt. Ltd	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± 5%°C & Relative Humidity 65±5%.
4. Calibration Status of equipments / Instruments are verified

  
Authorized Signatory  
Dr. S. Anbudayanidhi (Code No. : 893)

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गिकी संस्थान

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**INSPECTION DOCUMENT**

Inspection Document No. : IB00422230502671/2 Dated : 09.02.2023  
Issued to : Executive engineer, KWA, Irinjalakuda  
Manufacturer / Supplier Inspection : CP/KWA/MHMA/36/22-23/02 Date: 04-02-2023  
Call Letter No. & Date  
AS PER IS NO. / QAP NO. : 4985:2021

**PART - A: PARTICULARS OF STORES**

Description of the items : UPVC pipes as per IS 4985:2021  
Grade/Variety/Type/Size/Class etc. : 63 mm UPVC Pipes 6 kg/cm<sup>2</sup> Class 3  
Declared Value, if any : Nil  
Quantity : 3455 Mtrs. (576 No's X 6m Length)  
Any Other Information : Batch Numbers : 202301310021, 202301280022

**PART - B: SUPPLEMENTARY INFORMATION**

Reference to sampling procedure : IS 4985: 2021

**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.: 63.09, Max.: 63.20
3	7.1.1.2	Diameter at any Point	mm	Min.: 62.2, Max.: 63.8	Min.: 63.02, Max.: 63.22
4	7.1.2	Wall thickness	mm	Min.: 2.2, Max.: 2.7	Min.: 2.23, Max.: 2.35
5	7.1.4.1	Effective length	meter	6.00 (min.)	6.004
6	7.2.1.1	Socket length	mm	37.5 (min.)	39.18
		Mean Socket Inner Dia.	mm	Min.: 63.1 Max.: 63.3	Min.: 63.14, Max.: 63.18
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	Pipes are Clearly cut and reasonably square to the axis
8	10.1	Visual Appearance Color of the pipes	--	The Colour of the pipes shall be light grey.	Conformed
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)	3.40
12	13.1.2	Longitudinal Blue Color Strip	No.	Minimum 1 No. required	Conformed

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Inspection Document No. :IB00422230502671/2 Dated : 09.02.2023

Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
13	10.5	Vicat softening Temperature	°C	80° C ( Min)	83.50
14	10.6	Density	g/cm <sup>3</sup>	1.40 - 1.46	1.43
15	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	8.20
16	11.1	Hydrostatics characteristics 1 hr / 27° C	--	The Pipe shall not fail during the prescribed test duration	Conformed
17	11.2	Resistance to External Blows at 0° C	%	Shall have a true impact rate of not more than 10%	Conformed (0/25) TIR=0

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 & 6.1.2	VCM content of PVC Resin	Batch No.: 221203,221204, 221205, 221206 Dt:26-12-2022	Inner Mongolia Yihua Chemical Industry Co.Ltd	Reviewed
2	6.1	Calcium Carbonate	ZTIPA2212000436 Dated : 18-12-2022	Zantat Sdn Bhd, Malaysia	Reviewed
3	6.1	Titanium Dioxide	KMQA/PC/675/22 Dt:06.08.2022	The Kerala Minerals and Metals Ltd	Reviewed
4	6.1	One Pack Stabiliser	80515402000001 Dated: 22-11-2022	Baerlocher India Additives Pvt Ltd,	Reviewed
5	10.3	Effect on Water	Test Report No.: 20967A Dated : 03.01.2023	CIPET Mysuru	Reviewed
6	11.1	Hydrostatic Characteristics: Type Test : 1000 hour at 60° C	Test Report No.: 10126481/2022/SS/ 3_1 Dated: 29.10.2022	M/s. Kailtech Test and Research Centre Pvt. Ltd	Reviewed

**PART - D : REMARKS**

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- 3.Lab Environmental Condition during the witness of tests: Temperature 27± 5%°C & Relative Humidity 65±5%.
- 4.Calibration Status of equipments / Instruments are verified

  
Authorized Signatory  
Dr. S. Anbudayanidhi(Code No. : 893)

पेट्रोसायन अभियांत्रिकी एवं  
तकनीकी संस्थान

(केन्द्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

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**INSPECTION DOCUMENT**

Inspection Document No. : IB00422230502671/3 Dated : 09.02.2023  
Issued to : Executive engineer, KWA, Irinjalakuda  
Manufacturer / Supplier Inspection : CP/KWA/MHMA/36/22-23/02 Date: 04-02-2023  
Call Letter No. & Date  
AS PER IS NO. / QAP NO. : 4985:2021

**PART - A: PARTICULARS OF STORES**

Description of the items : UPVC pipes as per IS 4985:2021  
Grade/Variety/Type/Size/Class etc. : 50 mm UPVC Pipes 6 kg/cm<sup>2</sup> Class 3  
Declared Value, if any : Nil  
Quantity : 1330 Mtrs. (222 No's X 6m Length)  
Any Other Information : Batch Numbers : 202301310012

**PART - B: SUPPLEMENTARY INFORMATION**

Reference to sampling procedure : IS 4985: 2021

**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.: 50.07, Max.: 50.21
3	7.1.1.2	Diameter at any Point	mm	Min.: 49.4, Max.: 50.6	Min.: 50.02, Max.: 50.22
4	7.1.2	Wall thickness	mm	Min.: 1.7, Max.: 2.1	Min.: 1.72, Max.: 1.86
5	7.1.4.1	Effective length	meter	6.00 (min.)	6.004
6	7.2.1.1	Socket length	mm	31.0 (min.)	32.12
		Mean Socket Inner Dia.	mm	Min.: 50.1 Max.: 50.3	Min.: 50.13, Max.: 50.18
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	Pipes are Clearly cut and reasonably square to the axis
8	10.1	Visual Appearance Color of the pipes	--	The Colour of the pipes shall be light grey.	Conformed
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)	3.30
12	13.1.2	Longitudinal Blue Color Strip	No.	Minimum 1 No. required	Conformed

S. An. 4/5

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**Inspection Document No. :IB00422230502671/3 Dated : 09.02.2023**

Sl. No.	Clause No. / QAP Sl. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
13	10.5	Vicat softening Temperature	°C	80° C ( Min)	83.10
14	10.6	Density	g/cm <sup>3</sup>	1.40 - 1.46	1.44
15	10.7	Sulphated ash content Test	%	Shall not exceed 11 %	8.50
16	11.1	Hydrostatics characteristics 1 hr / 27° C	--	The Pipe shall not fail during the prescribed test duration	Conformed
17	11.2	Resistance to External Blows at 0° C	%	Shall have a true impact rate of not more than 10%	Conformed (0/25) TIR=0

**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 & 6.1.2	VCM content of PVC Resin	Batch No.: 221203,221204, 221205, 221206 Dt:26-12-2022	Inner Mongolia Yihua Chemical Industry Co.Ltd	Reviewed
2	6.1	Calcium Carbonate	ZTIPA2212000436 Dated : 18-12-2022	Zantat Sdn Bhd, Malaysia	Reviewed
3	6.1	Titanium Dioxide	KMQA/PC/675/22 Dt:06.08.2022	The Kerala Minerals and Metals Ltd	Reviewed
4	6.1	One Pack Stabiliser	80515402000001 Dated: 22-11-2022	Baerlocher India Additives Pvt Ltd,	Reviewed
5	10.3	Effect on Water	Test Report No.: 20967A Dated : 03.01.2023	CIPET Mysuru	Reviewed
6	11.1	Hydrostatic Characteristics: Type Test : 1000 hour at 60° C	Test Report No.: 10126481/2022/SS/ 3_1 Dated: 29.10.2022	M/s. Kailtech Test and Research Centre Pvt. Ltd	Reviewed

**PART - D : REMARKS**

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Authorized Signatory  
Dr. S. Anbudayanidhi(Code No. : 893)

पेट्रोसायन अभियांत्रिकी एवं  
तकनीकी संस्थान

(एक केन्द्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)  
मुख्यालय कार्यालय, पी. डी. आई. सेल  
रसायन एवं पेट्रो रसायन विभाग,  
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टी. वी. के. औद्योगिक इस्टेट, गिन्दी, चेन्नई - 600 032  
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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

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**INSPECTION DOCUMENT**

Inspection Document No. : IB00422230502671/4 Dated : 09.02.2023  
Issued to : Executive engineer, KWA, Irinjalakuda  
Manufacturer / Supplier Inspection : CP/KWA/MHMA/36/22-23/02 Date: 04-02-2023  
Call Letter No. & Date :  
AS PER IS NO. / QAP NO. : 4985:2021

**PART - A: PARTICULARS OF STORES**

Description of the items : UPVC pipes as per IS 4985:2021  
Grade/Variety/Type/Size/Class etc. : 20 mm UPVC Pipes 12.5 kg/cm<sup>2</sup> Class 6  
Declared Value, if any : Nil  
Quantity : 13020Mtrs. (2170 No's X 6m Length)  
Any Other Information : Batch Numbers : 202302020011, 202302020012

**PART - B: SUPPLEMENTARY INFORMATION**

Reference to sampling procedure : IS 4985: 2021

**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.: 20.10, Max.: 20.19
3	7.1.1.2	Diameter at any Point	mm	Min.: 19.5, Max.: 20.5	Min.: 20.06, Max.: 20.22
4	7.1.2	Wall thickness	mm	Min.: 1.4, Max.: 1.8	Min.: 1.42, Max.: 1.54
5	7.1.4.1	Effective length	meter	6.00 (min.)	6.004
6	7.2.1.1	Socket length	mm	16.0 (min.)	19.10
		Mean Socket Inner Dia.	mm	Min.: 20.1 Max.: 20.3	Min.: 20.14, Max.: 20.19
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	Pipes are Clearly cut and reasonably square to the axis
8	10.1	Visual Appearance Color of the pipes	--	The Colour of the pipes shall be light grey.	Conformed
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)	3.90
12	13.1.2	Longitudinal Blue Color Strip	No.	Minimum 1 No. required	Conformed



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**Inspection Document No. :IB00422230502671/4 Dated : 09.02.2023**

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