

केन्द्रीय पेट्रोसायन 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)

Email : pdiho@cipet.gov.in

Name of Inspecting Official: P Radhakrishnan & Nagarajan T
Code No. : 785 & 819

CIPET/QF/7741

W.O. Centre: Kochi

Camp at : M/s.Floflex Industries LLP,Erode

INSPECTION REPORT

1.	Report No : IB00423240500919	:	Date: 26.06.2023
2.	Name of the Indenter / Consignee with detailed address	:	The Executive Engineer, Kerala Water Authority, Office of the Executive Engineer, Project Division, Kattappana, Vellayamkudy. P.O.Kerala - 685515
3.	Indenter Order No. & Date and Extension (if any)	:	No.377/DB1/2023/Pr.D-KTPA-MTPZA Dated: 19.05.2023 Work Order No SE/PHC/MVPA/D5/T-126/2022-23 Dated 04.05.2023
4.	Details of the Consignee	:	The Executive Engineer, Kerala Water Authority, Office of the Executive Engineer, Project Division, Kattappana, Vellayamkudy. P.O.Kerala - 685515
5.	Name of the Supplier / Contractor	:	Contractor: Sri. Sibi K Jose Kannampuzha C P Bawa Building Near Anachira Pump Kothamangalam Supplier: 1. M/s.S.R.Enterprises201,Bangur Avenue, Block B, Kolkata - 700 055, West Bengal through 2. M/s. Ashirvad Pipes Pvt Ltd.,No.4b, Attibele Industrial Area, Hosur Road, Bangalore
6.	Supplier Order No. & Date (if any)	:	Contractor: P.O.No. Nil Date : Nil Supplier: 1. P.O.No. Nil Dated: 22/05/2023 2.P.O.No.4500001874 , 4500001811 Dated:30/05/2023 , 28/04/2023
7.	Name and address of the Manufacturer / Inspection site	:	M/s.Floflex Industries LLP, Plot No-Kk3 and Kk4,Sipcot Industrial Growth Centre, P.V.Palayam P.O, Perundurai Taluk, Erode Dist 638052,Tamilnadu
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	:	FF/CIPET/ICL/MAY-23/0011 (R) dated: 20.06.2023
9.	PDI Cell Assignment No. & Date	:	CIPET/HO/2023241986 dated 14.06.2023
10.	Date of inspection	:	Initiated on: 20.06.2023 Completed on: 26.06.2023
11.	Any other information	:	Manufacturer BIS License No. CM/L- 6500035611 Brand Name: Ashirvad by aliaxis SWASTH HDPE PIPES. Jal Jeevan Mission(JJM)-WSS to Santhanpara, Rajakumary(part) and Senapathy (part) Panchayth in Idukki district Package II A-Supplying and Laying Distribution and Providing FHTCs in Santhanpara G P- Pipeline work for pipe testing

DETAILS OF THE STORES

Sl. No.	Description of the items	Quantity as per supplier 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
HDPE Pipes as per IS 4984: 2016 with IS Certification Mark							
01	90MM PE100 PN 8 SDR 17	40661	Nil	40600 (203 Nos X 200 Metre Coil)	40600 (203 Nos X 200 Metre Coil)	Nil	61
02	90MM PE100 PN 10 SDR 13.6	28524	Nil	28524 (142Nos X 200 Metre Coil) + (1No X 124 Metre Coil)	28524 (142Nos X 200 Metre Coil) + (1No X 124 Metre Coil)	Nil	Nil
03	90MM PE100 PN 16 SDR 9	81459	Nil	81400 (407Nos X 200 Metre Coil)	81400 (407Nos X 200 Metre Coil)	Nil	59
04	25MM PE80 PN 16 SDR 7.4	100000	Nil	100000 (200Nos X 500 Metre Coil)	100000 (200Nos X 500 Metre Coil)	Nil	Nil

Remarks: All accepted items are stamped thus-

For SL No : 1, 2 & 3



For SL No : 02

HOLOGRAM USED S.L.NO - FROM A3619457 TO A3619660

TOTAL - 200 NOS



1. I 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. IB00423240500919/1 to 4 dated 26.06.2023 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
(Nagarajan T & 819)

AUTHORIZED SIGNATORY
(P Radhakrishnan & 785)

CC: 1. M / s Floflex Industries LLP - Perundurai, Erode

2. Sri. Sibi K Jose Contractor 3. EE, KWA

4. CIPET - Kochi

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साम्राज्य का
अमृत महोत्सव

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CIPET/QF/7742

W.O. Centre: Kochi

Name of Inspecting Official: P Radhakrishnan & Nagarajan T
Code No. : 785 & 819

Camp at : M/s.Floflex Industries LLP,Erode

INSPECTION DOCUMENTS

Dated: 26.06.2023

Inspection Document NO.: IB00423240500919/ 1
Issued to : The Executive Engineer, Kerala Water Authority, Office of the Executive Engineer, Project Division, Kattappana, Vellayamkudy. P.O.
Manufacturer / Supplier Inspection Call Letter No. & Date: FF/CIPET/CL/MAY-23/0011 (R) dated: 20.06.2023
Test report as per IS 4984:2016 (Latest Amendment)

PART - A: PARTICULARS OF STORES

- a) Description of the items : HDPE Pipe
Grade/Variety/Type/Size/Class etc. : 90MM PE100 PN 8 SDR 17
b) Declared Value, if any : Nil
c) Quantity : 40600 metre (203 Nos X 200 Metre Coil)
d) Item omitted from the original scope of work if any : Nil
e) Any Other Information : Batch Numbers : 202305270031 , 202306080031 , 202306110031

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

Sl. No.	Clause No.	Tests Witnessed	Unit	Specified Requirements	Observed Results
1	6.2	Colour of pipe	---	Black	Black
2	6.2.1	Dimension of Blue Stripes			
		Width	mm	Min. 3.0	3.7
		Depth	mm	Max. 0.2	0.17
3	7.1	Visual Appearance	---	The internal & External surfaces shall be smooth, clean and free from grooving and other defects. Ends shall be cleanly cut and shall be square with the axis of the pipe	Satisfactory
		Out of Squareness	mm	Max. 3	1.2
		Length of straight pipe	Mtrs	--	Not Applicable
4	7.4	Dimensions of Pipe			
		Outside Diameter			
	7.4.1.1 Table-3	Minimum	mm	90.0	90.1
		Maximum	mm	90.6	90.5
	7.4.1.1 Table-4	Wall Thickness			
		Minimum	mm	5.3	5.40
	Maximum	mm	6.0	5.90	
	7.4.1.2	Ovality	mm	Max. 1.8	1.2
5	8	Performance Requirement			
		Hydraulic Characteristic (IPCR) Acceptance Test 48 hrs at 80°C @ 5.7 MPa Induced Stress		---	The sample shall show no signs of localized swelling, leakage or weeping and shall not burst during the Test Duration
	8.1.1 Table-5	Longitudinal Reversion Test	%	Max ± 3 %	1.4
	8.2	Carbon Black Content	%	2.5 ± 0.5	2.32
		Carbon Black Dispersion	---	Satisfactory	Satisfactory
	8.3	Melt Flow Rate (190°C/5kgf)	g/10min	0.15 to 1.1	0.24
	8.4	Oxidation Induction Time	minutes	≥ 20.0	28.92
	8.5	Base Density at 27°C	kg/m ³	940 to 960	945.64
	8.6	Elongation at Break	%	> 350	619.40
8.7	Yield Strength	MPa	>15	18.31	
8.8	Marking on Pipe	---	Ashirvad by aliaxis swasth MFR BY FLOFLEX INDUSTRIES LLP, PE100 DN90 PN8 SDR17, 2023XXXXXXX IS 4984 CML/ 6500035611	Marking are as per Standard	

Sl. No.	Clause No.	Tests Parameters/ Documents	Certificate/ Report No. & Date	Report Issued by	Review/ Remarks
1.	5.2, 6.1.1 Table 2	Raw material property Grade: 002DP48 HDPE D PIPES & IOCL	LOT NO: HD23020127 Dated : 09/03/2023 , HD23020128 Dated : 10/03/2023	M/s. IOCL, Panipat	Reviewed & Confirmed
		Raw material Property (Master Batch)	BATCH NO : 5109 DATED : 16/04/2022	M/s. konspec, Mangalore	Reviewed & Confirmed
2.	8.1.1 Annex E	Internal Pressure Creep Rupture Test of Pipe (at 27°C for 100 h)	Report No: 03794 , Dated : 30-06-2022	CIPET - MADURAI	Reviewed & Confirmed
3.	do	Internal Pressure Creep Rupture Test of Pipe (at 80°C for 165 h)			
4.	do	Internal Pressure Creep Rupture Test of Pipe (at 80°C for 1000 h)			
5.	8.6	Overall Migration			
6.	8.1.2	Internal Pressure Creep Rupture Test of Joint Pipe (at 80° C for 48 h)			
7.	8.8	Tensile Strength for Butt-fusion			
8.	8.10	Slow Crack Growth Rate Test			

PART - D: REMARKS

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- These witness result stated above relate Exclusive to the work order of the object(s) or the lot inspection.
- Lab. Environmental Condition during the witness or Tests: Temperature 27± 2 °C & R.H. 65±5%
- Calibration Status of equipments/Instruments are verified.

AUTHORIZED SIGNATORY
(Nagarajan T & 819)

AUTHORIZED SIGNATORY
(P Radhakrishnan & 785)

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CIPET/QF/7742

Name of Inspecting Official: P Radhakrishnan & Nagarajan T
Code No. : 785 & 819

W.O. Centre: Kochi
Camp at : M/s.Floflex Industries LLP, Erode

INSPECTION DOCUMENTS

Inspection Document NO.: IB00423240500919/ 2

Dated: 26.06.2023

Issued to The Executive Engineer, Kerala Water Authority, Office of the Executive Engineer, Project Division, Kattappana, Vellayamkudy, P.O.

Manufacturer / Supplier Inspection Call Letter No. & Date: FF/CIPET//CL/MAY-23/0011 (R) dated: 20.06.2023

Test report as per IS 4984:2016 (Latest Amendment)

PART - A: PARTICULARS OF STORES

- a) Description of the items : HDPE Pipe
Grade/Variety/Type/Size/Class etc. : 90MM PE100 PN 10 SDR 13.6
b) Declared Value, if any : Nil
c) Quantity : 28524 metre (142Nos X 200 Metre Coil) + (1No X 124 Metre Coil)
d) Item omitted from the original scope of work if any : Nil
e) Any Other Information : Batch Numbers : 202306020011 , 202306050011 , 202306080011

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

Sl. No.	Clause No.	Tests Witnessed	Unit	Specified Requirements	Observed Results
1	6.2	Colour of pipe	---	Black	Black
2	6.2.1	Dimension of Blue Stripes			
		Width	mm	Min. 3.0	3.5
		Depth	mm	Max. 0.2	0.18
3	7.1	Visual Appearance	---	The Internal & External surfaces shall be smooth, clean and free from grooving and other defects. Ends shall be cleanly cut and shall be square with the axis of the pipe	Satisfactory
		Out of Squareness	mm	Max. 3.0	2.5
		Length of straight pipe	Mtrs	--	Not Applicable
4	7.4	Dimensions of Pipe			
		Outside Diameter			
	7.4.1.1 Table-3	Minimum	mm	90.0	90.10
		Maximum	mm	90.6	90.40
	7.4.1.1 Table-4	Wall Thickness			
		Minimum	mm	6.7	6.72
7.4.1.2	Maximum	mm	7.5	6.90	
	Ovality	mm	Max. 1.8	1.7	
5	8	Performance Requirement			
5	8.1.1 Table-5	Hydraulic Characteristic (IPCR) Acceptance Test 48 hrs at 80°C @ 5.7 MPa Induced Stress	---	The sample shall show no signs of localized swelling, leakage or weeping and shall not burst during the Test Duration	No Sign of Failure Observed during test duration.
	8.2	Longitudinal Reversion Test	%	Max ± 3 %	1.3
	8.3	Carbon Black Content	%	2.5 ± 0.5	2.44
		Carbon Black Dispersion	---	Satisfactory	Satisfactory
	8.4	Melt Flow Rate (190°C/5kgf)	g/10min	0.20 to 1.10	0.256
	8.5	Oxidation Induction Time	minutes	≥ 20.0	22.32
	8.6	Base Density at 27°C	kg/m ³	930 to 960	951.44
	8.7	Elongation at Break	%	≥ 350	533.86
8.8	Yield Strength	MPa	>15	18.54	
6	10	Marking on Pipe	---	Ashirvad by allaxis ASHIRVAD SWASTH MFR BY FLOFLEX INDUSTRIES LLP PE100 PN10 DN90 SDR13.6, 2023XXXXXXXXX IS 4984 CML/ 6500035611	Marking are as per Standard

Review of Documents (if any)

Sl. No.	Clause No.	Tests Parameters/ Documents	Certificate/ Report No. & Date	Report Issued by	Review/ Remarks
1.	5.2, 6.1.1 Table 2	Raw material property Grade: 002DP48 HDPE D PIPES & IOCL	LOT NO: HD23020127 Dated : 09/03/2023 , HD23020128 Dated : 10/03/2023	M/s. IOCL, Panipat	Reviewed & Confirmed
		Raw material Property (Master Batch)	BATCH NO : 5109 DATED : 16/04/2022	M/s. konspec, Mangalore	Reviewed & Confirmed
2.	8.1.1 Annex E	Internal Pressure Creep Rupture Test of Pipe (at 27°C for 100 h)	Report No: 03794 , Dated : 30-06-2022	CIPET - MADURAI	Reviewed & Confirmed
3.	do	Internal Pressure Creep Rupture Test of Pipe (at 80°C for 100 h)			
4.	do	Internal Pressure Creep Rupture Test of Pipe (at 80°C for 1000 h)			
5.	8.6	Overall Migration			
6.	8.1.2	Internal Pressure Creep Rupture Test of Joint Pipe (at 80° C for 48 h)			
7.	8.8	Tensile Strength for Butt-fusion			
8.	8.10	Slow Crack Growth Rate Test			

PART - D: REMARKS

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- Lab. Environmental Condition during the witness or Tests: Temperature 27± 2 °C & R.H. 65±5%
- Calibration Status of equipments/Instruments are verified.

AUTHORIZED SIGNATORY
(Nagarajan T & 819)

AUTHORIZED SIGNATORY
(P Radhakrishnan & 785)

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Name of Inspecting Official: P Radhakrishnan & Nagarajan T
Code No. : 785 & 819

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INSPECTION DOCUMENTS

Dated: 26.06.2023

Inspection Document NO.: IB00423240500919/ 3

Issued to The Executive Engineer, Kerala Water Authority, Office of the Executive Engineer, Project Division, Kattappana, Vellayamkudy. P.O.

Manufacturer / Supplier Inspection Call Letter No. & Date: FF/CIPET//CL/MAY-23/0011 (R) dated: 20.06.2023

Test report as per IS 4984:2016 (Latest Amendment)

PART - A: PARTICULARS OF STORES

- a) Description of the items : HDPE Pipe
Grade/Variety/Type/Size/Class etc. : 90MM PE100 PN 16 SDR 9
b) Declared Value, if any : Nil
c) Quantity : 81400 Metre (407 Nos X 200 Metre Coils)
d) Item omitted from the original scope of work if any : Nil
e) Any Other Information : Batch Numbers : 202305290021 , 202305290011 , 202306050021 , 202306120021 , 202306170021

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

Sl. No.	Clause No.	Tests Witnessed	Unit	Specified Requirements	Observed Results	
1	6.2	Colour of pipe	---	Black	Black	
2	6.2.1	Dimension of Blue Stripes				
		Width	mm	Min. 3.0	3.9	
		Depth	mm	Max. 0.5	0.11	
3	7.1	Visual Appearance	---	The Internal & External surfaces shall be smooth, clean and free from grooving and other defects. Ends shall be cleanly cut and shall be square with the axis of the pipe	Satisfactory	
		Out of Squareness	mm	Max. 3.0	1.5	
	7.2	Length of straight pipe	Mtrs	--	Not Applicable	
4	7.4.1.1 Table-3	Dimensions of Pipe				
		Outside Diameter				
		Minimum	mm	90.0	90.1	
	Maximum	mm	90.6	90.5		
	7.4.1.1 Table-4	Wall Thickness				
		Minimum	mm	10.0	10.21	
	Maximum	mm	11.1	10.75		
	7.4.1.2	Ovality	mm	Max.1.8	1.1	
	8	Performance Requirement				
5	8.1.1 Table-5	Hydraulic Characteristic (IPCR) Acceptance Test 48 hrs at 80°C @ 5.7 MPa Induced Stress	---	The sample shall show no signs of localized swelling, leakage or weeping and shall not burst during the Test Duration	No Sign of Failure Observed during test duration.	
	8.2	Longitudinal Reversion Test	%	Max ± 3 %	1.4	
	8.3	Carbon Black Content	%	2.5 ± 0.5	2.32	
		Carbon Black Dispersion	---	Satisfactory	Satisfactory	
	8.4	Melt Flow Rate (190°C/5kgf)	g/10min	0.15 to 1.1	0.264	
	8.5	Oxidation Induction Time	minutes	≥ 20.0	22.37	
	8.6	Base Density at 27°C	kg/m ³	940 to 960	946.69	
8.7	Elongation at Break	%	≥ 350	751.72		
	8.8	Yield Strength	MPa	>15	17.87	
6	10	Marking on Pipe	---	Ashirvad by aliaxis SWASTH MFR BY FLOFLEX INDUSTRIES LLP, PE100 PN16 DN90 SDR9, 2023XXXXXXXX IS 4984 CML/6500035611	Marking are as per Standard	

Review of Documents (if any)

Sl. No.	Clause No.	Tests Parameters/ Documents	Certificate/ Report No. & Date	Report Issued by	Review/ Remarks
1.	5.2, 6.1.1 Table 2	Raw material property Grade: 002DP48 HDPE D PIPES & IOCL	LOT NO: HD23020127 Dated : 09/03/2023 , HD23020128 Dated : 10/03/2023	M/s. IOCL, Panipat	Reviewed & Confirmed
		Raw material Property (Master Batch)	BATCH NO : 5109 DATED : 16/04/2022	M/s. konspec, Mangalore	Reviewed & Confirmed
2.	8.1.1 Annex E	Internal Pressure Creep Rupture Test of Pipe (at 27°C for 100 h)	Report No: 03794 , Dated : 30-05-2022	CIPET - MADURAI	Reviewed & Confirmed
3.	do	Internal Pressure Creep Rupture Test of Pipe (at 80°C for 165 h)			
4.	do	Internal Pressure Creep Rupture Test of Pipe (at 80°C for 1000 h)			
5.	8.6	Overall Migration			
6.	8.1.2	Internal Pressure Creep Rupture Test of Joint Pipe (at 80° C for 48 h)			
7.	8.8	Tensile Strength for Butt-fusion			
8.	8.10	Slow Crack Growth Rate Test			

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(Nagarajan T & 819)

AUTHORIZED SIGNATORY
(P Radhakrishnan & 785)

केन्द्रीय पेट्रोसायन 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)
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)
Email : pdiho@cipet.gov.in

Name of Inspecting Official: P Radhakrishnan & Nagarajan T
Code No. : 785 & 819

CIPET/QF/7742

W.O. Centre: Kochi

Camp at : M/s.Floflex Industries LLP,Erode

Inspection Document NO.: IB00423240500919/ 4

INSPECTION DOCUMENTS

Dated: 26.06.2023

Issued to The Executive Engineer, Kerala Water Authority, Office of the Executive Engineer, Project Division, Kattappana, Vellayankudy, P.O.
Manufacturer / Supplier Inspection Call Letter No. & Date: FF/CIPET//CL/MAY-23/0011 (R) dated: 20.06.2023
Test report as per IS 4984:2016 (Latest Amendment)

PART - A: PARTICULARS OF STORES

- a) Description of the items : HDPE Pipe
Grade/Variety/Type/Size/Class etc. : 25MM PE80 PN 16 SDR 7.4
b) Declared Value, if any : Nil
c) Quantity : 100000 Metre (200 Nos X 500 Metre Coil)
d) Item omitted from the original scope of work if any : Nil
e) Any Other Information : Batch Numbers : 202306060051 , 202306120051

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

Sl. No.	Clause No.	Tests Witnessed	Unit	Specified Requirements	Observed Results
1	6.2	Colour of pipe	----	Black	Black
2	6.2.1	Dimension of Blue Stripes			Black
		Width	mm	Min. 3.0	3.5
		Depth	mm	Max. 0.2	0.17
3	7.1	Visual Appearance	----	The Internal & External surfaces shall be smooth, clean and free from grooving and other defects. Ends shall be cleanly cut and shall be square with the axis of the pipe	Satisfactory
		Out of Squareness	mm	Max. 2	1.2
4	7.2	Length of straight pipe	Mtrs	--	Not Applicable
	7.4	Dimensions of Pipe			
		Outside Diameter			
	7.4.1.1 Table-3	Minimum	mm	25.0	25.12
		Maximum	mm	25.3	25.20
	7.4.1.1 Table-4	Minimum	mm	3.4	3.42
Maximum		mm	3.9	3.64	
7.4.1.2	Ovality	mm	Max.1.2	0.18	
5	8	Performance Requirement			
	8.1.1 Table-5	Hydraulic Characteristic (IPCR) Acceptance Test 48 hrs at 80°C @ 4.9 MPa Induced Stress	----	The sample shall show no signs of localized swelling, leakage or weeping and shall not burst during the Test Duration	No Sign of Failure Observed during test duration.
	8.2	Longitudinal Reversion Test	%	Max ± 3 %	1.4
	8.3	Carbon Black Content	%	2.5 ± 0.5	2.20
		Carbon Black Dispersion	----	Satisfactory	Satisfactory
	8.4	Melt Flow Rate (190°C/5kgf)	g/10min	0.15 to 1.1	0.42
	8.5	Oxidation Induction Time	minutes	≥ 20.0	25.16
	8.6	Base Density at 27°C	kg/m ³	940 to 960	947.09
8.7	Elongation at Break	%	≥ 350	504.70	
8.8	Yield Strength	MPa	>15	18.20	
6	10	Marking on Pipe	----	Ashirvad by aliaxis swasth MFR BY FLOFLEX INDUSTRIES LLP, PE80 DN20 PN16 SDR7.4, 2023XXXXXXXXXX IS 4984 CML/ 6500035611	Marking are as per Standard

Sl. No.	Clause No.	Tests Parameters/ Documents	Certificate/ Report No. & Date	Report Issued by	Review/ Remarks
1.	5.2, 6.1.1 Table 2	Raw material property Grade: 004DP44	BATCH NO : HD19010431 Dated : 24/08/2022	IOCL	Reviewed & Confirmed
		Raw material Property (Master Batch)	BATCH NO : 5109 DATED : 16/04/2022	konspec	Reviewed & Confirmed
2.	8.1.1 Annex E	Internal Pressure Creep Rupture Test of Pipe (at 27°C for 100 h)	Report No: 03794 , Dated : 30-06-2022	CIPET - MADURAI	Reviewed & Confirmed
3.	do	Internal Pressure Creep Rupture Test of Pipe (at 80°C for 165 h)			
4.	do	Internal Pressure Creep Rupture Test of Pipe (at 80°C for 1000 h)			
5.	8.6	Overall Migration			
6.	8.1.2	Internal Pressure Creep Rupture Test of Joint Pipe (at 80° C for 48 h)			
7.	8.8	Tensile Strength for Butt-fusion			
8.	8.10	Slow Crack Growth Rate Test			

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.
- These witness result stated above relate Exclusive to the work order of the object(s) or the lot inspection.
- Lab. Environmental Condition during the witness or Tests: Temperature 27± 2 °C & R.H. 65±5%
- Calibration Status of equipments/Instruments are verified.

AUTHORIZED SIGNATORY
(Nagarajan T & 819)

AUTHORIZED SIGNATORY
(P Radhakrishnan & 785)