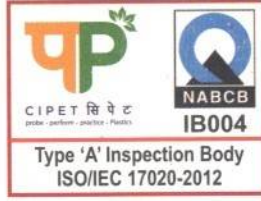


केंद्रीय पेट्रोकेमिकल्स इंजीनियरिंग एवं तकनीकी संस्थान (सिपेट)

(पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)
मुख्यालय. पो.डो.आई सेल्
रसायन एवं पेट्रोसायन विभाग,
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Department of Chemicals & Petrochemicals

Ministry of Chemicals & Fertilizers, Govt. of India

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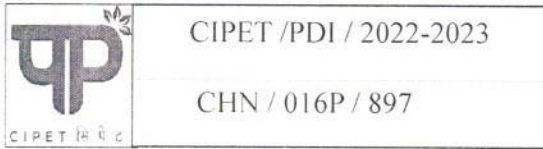
E-mail : pdiho@cipet.gov.in

Name of Inspecting Official:A.Velladurai Code No. : 897		W.O.Centre: Kochi Camp at: M/s. Kunsons Pipes Pvt. Ltd., Coimbatore, TN	
INSPECTION REPORT:			
1. Report No : IB00422230502666	Date 06.02.2023		
2. Name of the Indentor / Consignee with detailed address	The Executive Engineer, Kerala Water Authority, P. H. Division, Irinjalakuda, Kerala. ✓		
3. Indenter Order No. & Date and Extension	(i) Letter No. D4-2235/2022 Dt.30.01.2023. (ii) Agreement No. 60/SE/PHC/TSR/2022-23 Dt. 23.01.2023 (iii) Letter No. KWA/HO/SP-440/2017/TPI(1) Dt. 02.07.2020 of MD,KWA,TVM.		
4. Details of the Consignee	Consignee: The Executive Engineer, Kerala Water Authority, P. H. Division, Irinjalakuda, Kerala. Name of Work: JJM – Parappukkara Grama Panchayath – Pipe Line Extension and Providing FHTCs at various places of Parappukkara Grama Panchayath.		
5. Name of the Supplier / Contractor	Sri. M.V Viswanathan , Mecheril House, Binanipuram (P.O) , Edayar, Aluva Kerala.		
6. Supplier Order No. & Date (if any)	PE-02/T88/MVV/KPPL/23 dated 23.01.2023		
7. Name and address of the Manufacturer / Inspection site	M/s. Kunsons Pipes Pvt. , Ltd. , SF No.458/1&2 , 459/1A&2A, Vellamada, Coimbatore ,Tamilnadu-641110.		
8. Manufacturer / Supplier Inspection Call Letter No. & Date	KUN/HDPE 010 dt. 31.01.2023		
9. PDI Cell Assignment No. & Date	CIPET/HO/2022237083 dated 03.02.2023		
10. Date of inspection	Initiated on: 03.02.2023		Completed on: 06.02.2023
11. Any other information	Manufacturer BIS License No. CM/L- 6500025810 ; Brand Name : KUNDAN		

DETAILS OF THE STORES:

Sl. No.	Description of Items	Qty. as per Order (in Meter)	Qty. Inspected earlier-Cumulative (in Meter)	Qty. Offered for Inspection (in Meter)	Qty. Accepted for Inspection (in Meter)	Qty. Rejected (in Meter)	Qty. Balance (in Meter)
HDPE Pipes as per IS 4984:2016 with IS Certification Marks:							
01	PE100 PN8 DN 110 MM SDR 17	5000	NIL	3000 Mtrs. (20 Nos. Coils X 150 Mtrs)	3000 Mtrs. (20 Nos. Coils X 150 Mtrs)	NIL	2000
02	PE100 PN8 DN 90 MM SDR 17	15000	NIL	5000 Mtrs. (22 Nos. Coils X 225 Mtrs) + (1 No. x 50 Mtrs)	5000 Mtrs. (22 Nos. Coils X 225 Mtrs) + (1 No. x 50 Mtrs)	NIL	10000

Remarks: All accepted items are stamped thus-



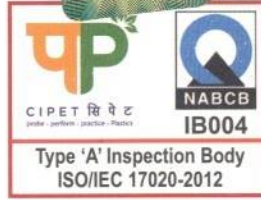
1. Certified that the items as detailed above have been inspected and accepted. The accepted items may be dispatched to the consignee. The Inspection Document NosRef.No.IB00422230502666 / 1 & 2 dated 06.02.2023 are enclosed.
2. This inspection report is valid for 30 days and any Dispute/discrepancies/claims may be brought to the notice of the undersigned within 30 days from the date of issue of this report.

A. Velladurai
AUTHORIZED SIGNATORY
(A.Velladurai&897)

- CC: 1. The Executive Engineer, Kerala Water Authority, P. H. Division, Irinjalakuda, Kerala.
2.M/s. Kunsons Pipes Pvt. Ltd., Coimbatore, Tamilnadu.
3. Sri. M.V Viswanathan , Mecheril House, Binanipuram (P.O) , Edayar, Aluva Kerala.
4. CIPET – Kochi.

केंद्रीय पेट्रोकेमिकल्स इंजीनियरिंग एवं तकनीकी संस्थान (सिपेट)

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Name of Inspecting Official: A.Velladurai
Code No. : 897

Camp at: M/s. Kunsons Pipes Pvt. Ltd., Coimbatore, TN

W.O.Centre: Kochi

INSPECTION DOCUMENTS

Inspection Document NO.: IB00422230502666 / 1

Dated: 06.02.2023

Issued to: M/s. Kunsons Pipes Pvt., Ltd., SF 9No.458/1&2, 459/1A&2A, Vellamada, Coimbatore, Tamilnadu- 641110.

Manufacturer / Supplier Inspection Call Letter No. & Date: KUN/HDPE 010 dt. 31.01.2023

Test report as per IS 4985:2021 (Latest Amendment)

PART - A: PARTICULARS OF STORES

- a) Description of the items : HDPE Pipe
b) Grade/Variety/Type/Size/Class etc.: PE 100 / PN8/ DN110 / SDR 17 HDPE Pipe
c) Declared Value, if any : Nil
d) Quantity : 3000 Mtrs. (20 Nos. Coils X 150 Mtrs)
e) Batch Numbers : 2022 10 26 00 51
f) Item omitted from the original scope of work, if any & any Other Information : Not applicable & Nil

PART - B: SUPPLEMENTARY INFORMATION

e) Reference to sampling procedure : Nil.

f) Reference to sampling procedure : IS 4984:2016 (Latest Amendment)

PART C: INSPECTION RESULTS of witnessed Tests & Review of Documents:

Results of Witnessed Tests :

Sl.No.	ClauseNo.	Tests/Witnessed	Unit	Specified Requirements	Results Obtained
1	6.2	Colour of pipe		Black Colour With Blue Strip	Confirm
2	6.2.1	Dimension of Blue Strip:			
		No. of Strips	Nos.	3	3
		Width & Depth	mm	Min.: 3.00 & Max.: 0.20	3.02 & 0.18
	7.4.1.1 Table -3	Outside Diameter	mm	Min.: 110.00, Max.: 110.70	110.10, 110.62
	7.4.1.1 Table- 4	Wall Thickness	mm	Min.: 6.50, Max.: 7.50	6.55, 7.50
	7.4.1.2	Ovality	mm	Max.: 2.20	1.80
	7.2	Length of the Pipe	Mtr.	Min.: 150.00	150.00
3	7.1	Visual Appearance	--	The Internal & External surface of pipe shall be smooth, clean free from grooving & other defects. Ends shall be cleanly cut and shall be square with the axis of the pipe.	Satisfactory
		Out of Squareness	mm	Max.: 3.00	0.18
	8.1	Performance Requirement :			
	8.1.1 Table -5	Hydrostatics characteristics- (IPCR TEST) Acceptance Test: At 80°C @ 4.9 MPa. Induced Stress for 48 Hours		The pipe shall not show any sign of localized Swelling, Leakage or Weeping and shall not burst during the test duration.	Confirm
	8.2	Reversion test	%	Longitudinal Reversion Max. 3%	2.24
	8.3	Carbon Black Content	%	2.00 to 3.00	2.82
		Carbon Black Dispersion	---	Satisfactory	Confirm
	8.4	Melt Flow Rate	gm/10Min	0.20 to 1.10	0.320
8.5	Oxidation Induction Time	Min	≥20	Confirm	
8.7	Density	Kg/ m ³	930.00 to 960.00	943.75-947.31	
8.9	Elongation at Break	%	≥350	604.00	
4	10.1.1	Marking on each pipe	--	Marking shall show-Manufacturer Name/Trade Mark, Material Designation, Pressure Rating, SDR, Outside Diameter, Batch/Lot Number.	Marking found as per the requirement.
		Lot number / Batch number	--		2022 10 26 00 51
	10.2.1	BIS Certification Marking	--	Marking with CML No.:	6500025810 ; Brand Name : KUNDAN

Review of Documents (if any):

Sl. No.	Clause No.	Test Parameters / Documents	Certificate / Report No. & Date	Certificate / Report Issued by	Review / Remarks
1	3.4, 8.5, 8.7	Melt Flow Rate, Oxidation Induction Time, Density (Raw material Parameters)	DJ1822107695 (Lot No: 220640384) dated 28.06.2022	M/s. ONGC Petrochemicals Ltd - Dharuch, Gujarat	Reviewed and satisfactory
2	8.1.1	Internal Pressure Creep Rupture Test of pipe at 27°C for 100 Hrs.	Test Report No. 22341 dated 26.07.2022	CIPET- Kochi	
3	8.1.1	Internal Pressure Creep Rupture Test of pipe at 80°C for 165 Hrs.			
4	8.1.1	Internal Pressure Creep Rupture Test of pipe at 80°C for 1000 Hrs.			
5	8.1.2	Internal Pressure Creep Rupture Test of pipe joints @ 80°C for 48 Hrs.			
6	8.6	Overall Migration			
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
(A.Velladurai / 897)

केंद्रीय पेट्रोकेमिकल्स इंजीनियरिंग एवं तकनीकी संस्थान (सिपेट)

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E-mail : pdiho@cipet.gov.in

Name of Inspecting Official: A.Velladurai
Code No. : 897

Camp at: M/s. Kunsons Pipes Pvt. Ltd., Coimbatore, TN

W.O.Centre: Kochi

INSPECTION DOCUMENTS

Inspection Document NO.: IB00422230502666 / 2

Dated: 06.02.2023

Issued to: M/s. Kunsons Pipes Pvt. Ltd., SF 9No.458/1&2, 459/1A&2A, Vellamada, Coimbatore, Tamilnadu- 641110.

Manufacturer / Supplier Inspection Call Letter No & Date: KUN/HDPE 010 dt. 31.01.2023

Test report as per IS 4985:2021 (Latest Amendment)

PART - A: PARTICULARS OF STORES

- a) Description of the items : HDPE Pipe
b) Grade/Variety/Type/Size/Class etc.: PE 100 / PN8/ DN110 / SDR 17 HDPE Pipe
c) Declared Value, if any : Nil
d) Quantity : 5000 Mtrs. (22 Nos. Coils X 225 Mtrs) + (1 No. x 50 Mtrs.)
e) Batch Numbers : 2022 08 29 00 51
f) Item omitted from the original scope of work, if any & any Other Information : Not applicable & Nil

PART - B: SUPPLEMENTARY INFORMATION

- f) Reference to sampling procedure : IS 4984:2016 (Latest Amendment)

PART C: INSPECTION RESULTS of witnessed Tests & Review of Documents:

Results of Witnessed Tests :

Sl.No.	ClauseNo.	Tests/Witnessed	Unit	Specified Requirements	Results Obtained
1	6.2	Colour of pipe		Black Colour With Blue Strip	Confirm
2	6.2.1	Dimension of Blue Strip:			
		No. of Strips	Nos.	3	3
		Width & Depth	mm	Min.: 3.00 & Max.: 0.20	3.02 & 0.15
	7.4.1.1 Table -3	Outside Diameter	mm	Min.: 90.00, Max.: 90.60	90.10, 90.55
	7.4.1.1 Table- 4	Wall Thickness	mm	Min.: 5.30, Max.: 5.90	5.32, 5.85
	7.4.1.2	Ovality	mm	Max.: 1.80	1.40
3	7.2	Length of the Pipe	Mtr.	Min.: 225.00	225.00
	7.1	Visual Appearance	--	The Internal & External surface of pipe shall be smooth, clean free from grooving & other defects. Ends shall be cleanly cut and shall be square with the axis of the pipe.	Satisfactory
		Out of Squareness	mm	Max.: 3.00	0.90
	8.1	Performance Requirement : Hydrostatics characteristics- (IPCR TEST) Acceptance Test: At 80°C @ 4.9 MPa. Induced Stress for 48 Hours		The pipe shall not show any sign of localized Swelling, Leakage or Weeping and shall not burst during the test duration.	Confirm
8.2	Reversion test	%	Longitudinal Reversion Max. 3%	1.74	
3	8.3	Carbon Black Content	%	2.00 to 3.00	2.54
		Carbon Black Dispersion	---	Satisfactory	Confirm
8.4	Melt Flow Rate	gm/10Min	0.20 to 1.10	0.300	
8.5	Oxidation Induction Time	Min	≥20	Confirm	
8.7	Density	Kg/ m ³	930.00 to 960.00	946-948	
8.9	Elongation at Break	%	≥350	544.65	
4	10.1.1	Marking on each pipe	--	Marking shall show-Manufacturer Name/Trade Mark, Material Designation, Pressure Rating, SDR, Outside Diameter, Batch/Lot Number.	Marking found as per the requirement.
		Lot number / Batch number	--		2022 08 29 00 51
	10.2.1	BIS Certification Marking	--	Marking with CM/L No.:	6500025810 ; Brand Name : KUNDAN

Review of Documents (if any):

Sl. No.	Clause No.	Test Parameters / Documents	Certificate / Report No. & Date	Certificate / Report Issued by	Review / Remarks
1	3.4.8.5, 8.7	Melt Flow Rate, Oxidation Induction Time, Density (Raw material Parameters)	DJ1822107695 (Lot No: 220640384) dated 28.06.2022	M/s. ONGC Petrochemicals Ltd - Dharuch, Gujarat	Reviewed and satisfactory
2	8.1.1	Internal Pressure Creep Rupture Test of pipe at 27°C for 100 Hrs.	Test Report No. 22341 dated 26.07.2022	CIPET- Kochi	
3	8.1.1	Internal Pressure Creep Rupture Test of pipe at 80°C for 165 Hrs.			
4	8.1.1	Internal Pressure Creep Rupture Test of pipe at 80°C for 1000 Hrs.			
5	8.1.2	Internal Pressure Creep Rupture Test of pipe joints @ 80°C for 48 Hrs			
6	8.6	Overall Migration			
7	8.8	Tensile Strength for Butt-Fusion			
8	8.10	Slow Crack Growth Rate Test			

PART - D: REMARKS

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