



Bangladesh

Head Office:

Rupayan Karim Tower, 14-B (14th Fl.)
80, Kakrail VIP Road, Ramna
Dhaka-1000, Bangladesh
Tel : +88-02-8391699

E-mail: pepcobd@gmail.com, Web: www.pepcobd.com

Date: 27.05.2025



To
The Executive Engineer
Procurement Division-2, Dhaka WASA,
98, Kazi Nazrul Islam Avenue, Kawran Bazar,
WASA Bhaban (5th floor), Dhaka-1215, Bangladesh

Subject: Submission of Third Party Inspection Report and Verified Documents against the contract no. 46.05.0000.428.07.016.24/2024-25/eGP/C-11 for the supply of 25 mm (DN 25) Domestic Water Meter for Revenue Zone, Dhaka WASA.

Dear Sir,

We are submitting the Third Party Inspection report and others related documents against the contract no. 46.05.0000.428.07.016.24/2024-25/eGP/C-11 for the supply of 25 mm (DN 25) Domestic Water Meter for Revenue Zone, Dhaka WASA as per the tender clause. We therefore request you please allow us to make the shipment as early as possible.

We are hoping for your kind cooperation in this regard.

Thanking you,



Md. Istiaque Ahmed
Associate Manager
For, PEPCO Bangladesh

Boss Order No

50031512

File (WI) No

25-0097

Report No: IND435

A. Project:	Procurement Division-2, DWASA	B. Supplier:	BAYLAN ÖLÇÜ ALETLERİ SAN. VE TİC. A.Ş.
Project Ref. No.:	46.05.0000.428.07.016.24/ 2024-25/eGP/C-11	Details:	
C. Inspection:	PSI	D. Buyer:	PEPCO Bangladesh
Customer Ref.No:	001105029-0202	End User:	Dhaka WASA
E. Customer:	BAYLAN ÖLÇÜ ALETLERİ SAN. VE TİC. A.Ş.	F. Place of Inspection:	BAYLAN ÖLÇÜ ALETLERİ SAN. VE TİC. A.Ş. / İZMİR
Contact Person:	Büşra AYDIN	Contact Person:	Büşra AYDIN
		Address:	BAYLAN OLCU ALETLERİ SAN VE TİC. A.Ş 10032 Sk. No: 16 Zip Code:35620 Cigli / İZMİR - TURKEY
G. Managing SGS office data:	SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.	Phone/Fax:	0538 971 57 95
MA Coordinator:	Zeynep Uğurlu (zeynep.ugurlu@sgs.com)		
H. Date of Work Order:	11.03.2025	I. Date of Inspection:	17.03.2025 & 26.05.2025

J. Inspection Type:	Spot Inspection ☒	Project Inspection ☐
☐ Pre-Production Inspection	☐ Manufacturing Inspection	☐ Final Acceptance Tests
☒ Pre-Shipment Inspection	☐ Loading/Unloading Supervision	☐ In-Service Inspection
☐ Project Monitoring	☐ COI Inspection	☐ Expediting
Sampling Plan (if applicable)	"General Levels II"	
Other (if any)		

K. Scope of Work:	Requested Inspection	Review	Comments
According to approved ITP	☐	☐	
Visual Quality Check	☒	☐	
Quantity Check	☒	☐	
Marking / Packing Check	☒	☐	
Dimensional Check	☐	☐	
Weight Check	☐	☐	
Functional Check	☐	☐	
Loading/Unloading Supervision	☐	☐	
Test Witness	☐	☐	
Document Review	☒	☐	
Sampling	☐	☐	
Expediting	☐	☐	
Construction Supervision	☐	☐	
Others: (as specified):	☐	☐	
Further description:			

E A



Boss Order No

50031512

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25-0097

Report No: IND435

L. Equipment/Goods
requested for inspection:

Water Meter

M. Referenced Documents:

	Document No	Rev No. or Year Issued	Attached	On Site
INDIV Gözetim Faaliyetleri Prosedürü	S-IND-PR-05	SGS portal	☐	☐
Applicable Norms, Standards and Specs	250101_A		☐	☐
Proforma			☒	☐
L/C			☐	☐
Purchase Order			☐	☐
Technical Specs / Data Sheet			☐	☐
Approved Drawings			☐	☐
Inspection Test Plan (ITP)			☐	☐
Test Procedures			☐	☐
Others			☐	☐

N. Personal Protective Equipments:

- | | | |
|--|---|--|
| ☒ SGS Uniform | ☒ Safety Boots/Shoes | ☒ Hard Hat |
| ☒ High Visibility Vest | ☒ Safety Glasses/Goggles | ☒ Safety Gloves |
| ☒ Ear Plugs/Muffs | ☒ Dust/Particulate Respirator | ☐ Lifejacket (Personal Flotation Device) |
| ☐ Gas/O2 Detectors | ☐ Gas/Chemical Mask | ☐ Fall Protection Equipm. (Harness & Lanyard) |

SITE REPORT (DETAILS)

O. Inspection Dates / Manday:

17.03.2025 & 26.05.2025

P. Inspection Result:	☒ satisfactory ☐ conditionally accepted (see report details) ☐ non conforming (see report details) ☐ rejected (see report details) ☐ aborted inspection (see report details)	Q. NCR/Punch list issued:
		☐ No ☒ Yes (see report details)
R. Inspection Summary & Short Conclusion:	Visual inspection was performed on the water meters. The goods were seen brand new and without damage. Performance, Pressure and Head Loss tests were performed under our witnessing. Test results were found satisfactory. Pulse outputs were functionally tested under our witnessing. It generates a pulse at the rate of at least per 100 lt. Result found satisfactory. IP68 test of water meter was performed under our witnessing. Test result found satisfactory. Technical specifications of the water meters were checked according to Compliance sheet of 25 mm (DN25) Domestic Water Meter. Details are given in R.5.1.	

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Boss Order No 50031512
File (WI) No 25-0097

Report No: IND435

R.1. Attendees

Erhan Arık - SGS
Büşra Aydın - Baylan
Yağız Ülger _ Baylan

R.2. Documents Used

P/I no: 250101_A
Compliance Sheet of 25 mm (DN25) Domestic Water Meter
Technical Specification of Domestic Water Meters (Dry Dial Multi-jet Water Meters)

R.3. Measuring Equipment Used

Test Bench no: 809
Test Bench no: 391
Test Bench no: 487
Caliper

R.4. Equipment / Goods Inspected

DN25 mm multi-jet dry dial (IP68) Domestic Water Meter with mineral glass and pulse output cable 2mt
with couplings (TK-3C) R160
%5 Spare Parts.

R.5. Inspection Activities and Results

R.5.1. Visual Quality

Visual controls have been performed on randomly selected 10 pcs water meter. The goods were seen brand new and without damage.
Serial numbers of visually inspected water meters are as follows.

Description	Serial No
TK-3C DN25 water meter	24915755
	24915756
	24915760
	24915759
	24915754
	24914533
	24914539
	24914536
	24914537
	24914532

Technical specifications of the water meters were checked according to Compliance sheet of 25 mm (DN25) Domestic Water Meter. Details are given below

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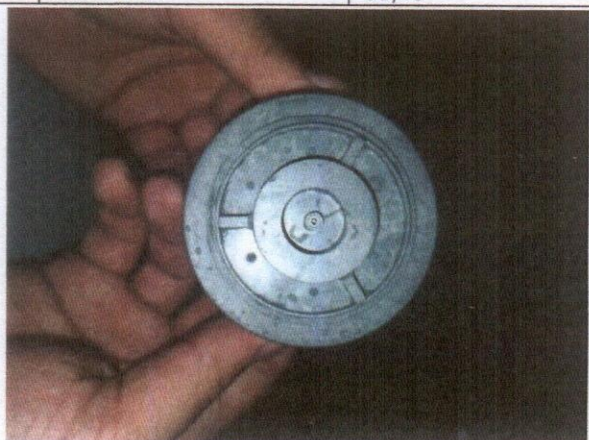
Report No: IND435

SI no	Essential Criteria	Remark / Result
1	General	Verified.
2	Materials & Construction	Material grade of the water meter body is brass alloy which conforming to DIN50930. Material and chemical analysis certificate of the water meter body was presented for our review. The chemical composition of the water meter body was mentioned as below in the certificate. Water meter was disassembled for checking materials of the hydraulic chamber. The spindles had been made of polished stainless steel with tungsten carbide tip and the bearings had sapphire. Internal pressure cups had been made of plastic material. The data sheet of the plastic material is attached to this report.

Element	DIN50930-6 Standard Min – Max Value Range (%)				Test result
Cu	Min	58	Max	63	58,91
Sn	Min	0	Max	0,30	0,140
Pb	Min	0,5	Max	2,20	0,996
Al	Min	0	Max	0,80	0,076
Ni	Min	0	Max	0,20	0,129
Mn	Min	0	Max	0,10	0,003
Fe	Min	0	Max	0,30	0,261
P	Min	0	Max	0,02	0,006
Cr	Min	0	Max	0,10	0,004
As	Min	0	Max	0,10	0,010
Sb	Min	0	Max	0,10	0,005
Si	Min	0	Max	0,05	0,007
Zn	Min	Reminder	Max	Reminder	39,45



Disassembled mechanism of water meter



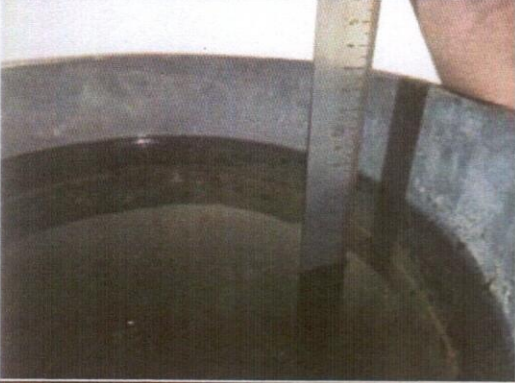
Sapphire bearing

3	Standards (As per Technical Specification)	The factory has required quality system certificates. The water meters had MID certificate. Please see attachment.
4	Marking (As per Technical Specification)	Required marking was seen on the water meters.
5	Size (As per Technical Specification)	DN25. Verified with dimension check.

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Σ A

Report No: IND435

6	Meter Flow Chamber	Verified with visual check.
7	Register	Verified with visual check. The test report of mineral glass material was present to us for our review. The test report was reviewed and attached to this report. IP68 test was performed under our witnessing. Test result found satisfactory.
		
		
		

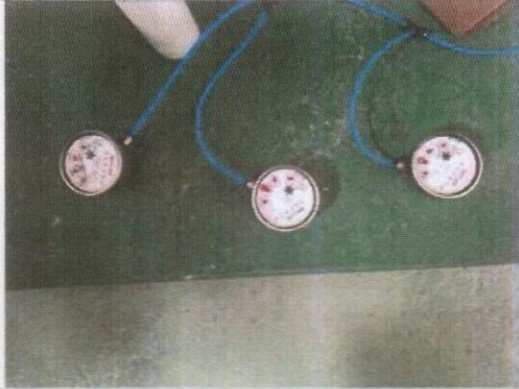
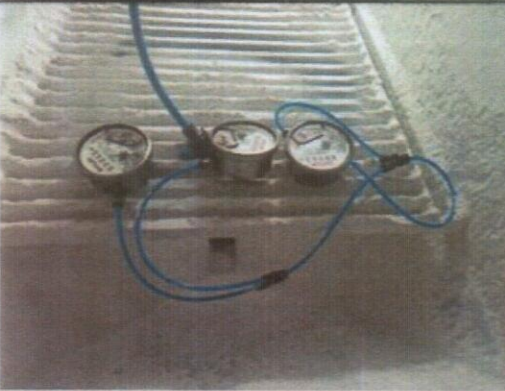
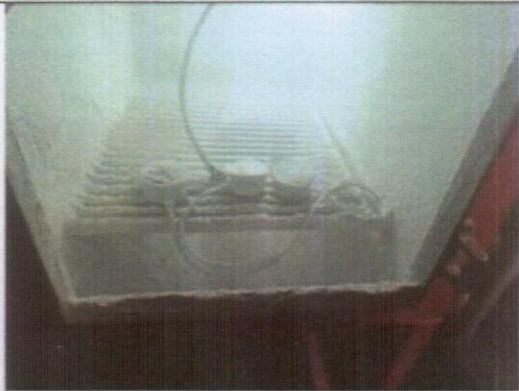
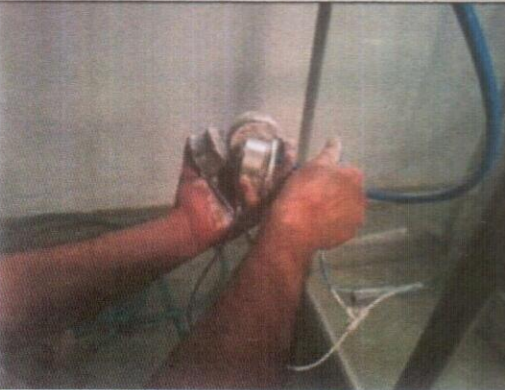
Boss Order No

50031512

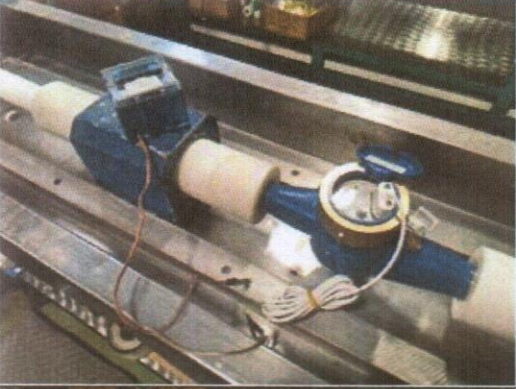
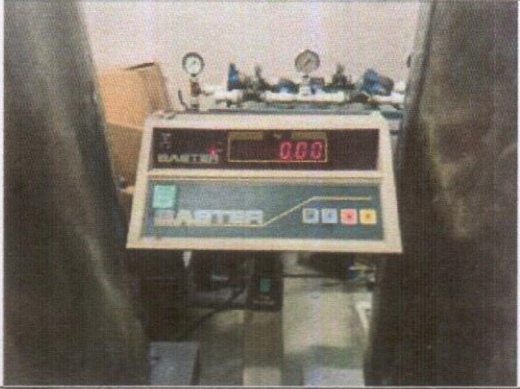
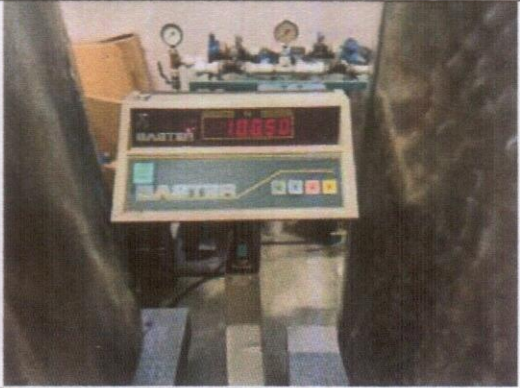
File (WI) No

25-0097

Report No: IND435

		
		
		
8	Automatic Meter Reader (AMR)	Pulse outputs were functionally tested during accuracy test. It generates a pulse at the rate of at least per 100 lt. Result was found satisfactory.

Report No: IND435

		
		
9	Connectors	Each water meter has end connectors for both ends.
10	Performance requirements	Accuracy test (indication of error) was performed under our witnessing at following flow rates: Q ₄ , Q ₃ , Q ₂ , Q ₁ according to ISO 4064. Result was found satisfactory.
11	Flow Characteristics (As per Technical Specification).	Accuracy test (indication of error) and Head loss test were performed under our witnessing. Result was found satisfactory.
12	Pressure	Static pressure test was performed under our witnessing. Result was found satisfactory.
13	Head loss	Head loss test was performed under our witnessing. Result was found satisfactory
14	Sealing (As per Technical Specitication)	Water meter has seal
15	Coatings (As per Technical Specification)	No coating defects was observed on coated surfaces.

R.5.2. Quantity

Description	Quantity
DN25 mm multi-jet dry dial (IP68) Bulk Water Meter with mineral glass and pulse output cable 2mt with couplings (TK-3C) R160	6000 pcs.
%5 Spare parts	

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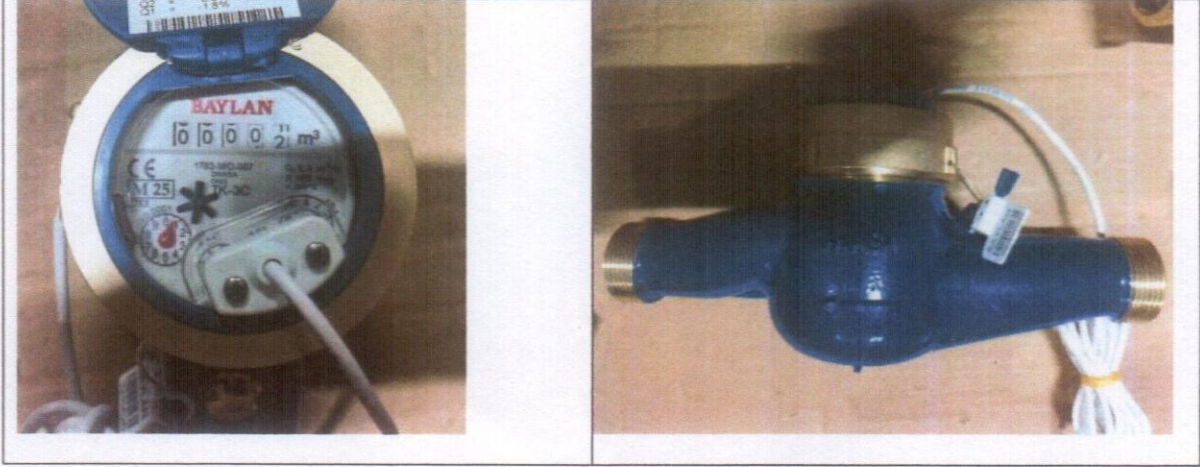
Report No: IND435

R.5.3. Marking / Packing

The goods were seen in cartoon boxes. Printed markings were seen on cartoon boxes with manufacturer name, manufacturer address information. Paper stickers were seen on the goods with product description and serial no information.

Following marking was seen on the water meter:

DWASA, Nominal Dia., Flow direction, Serial no, Q₃ value, R160, MAP16, DWASA, Baylan , CE



R.5.4. Dimensional

Dimension check was performed. No deviation was observed.

R.5.5. Test Witness

The following tests have been performed on randomly selected goods.

- Performance requirements of water
Result: Satisfactory
Test reports are attached to this report.

Description	Serial No
TK-3C DN25 water meter	24915755
	24915756
	24915760
	24915759
	24915754
	24914533
	24914539
	24914536

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Σ A

Report No: IND435

	24914537
	24914532

- Pressure test: This test performed on the following goods mentioned in table below.
Result: Satisfactory.
Test reports are attached to this report.

Description	Serial No
TK-3C DN25 water meter	24915755
	24915756
	24915760
	24915759
	24915754
	24914533
	24914539
	24914536
	24914537
	24914532

- Head loss test: This test performed on the following goods mentioned in table below.
Result: Satisfactory.
Test reports are attached to this report.

Description	Serial No
TK-3C DN25 water meter	24915760
	24914533

- IP68 test: This test performed on the following goods mentioned in table below.
Result: Satisfactory.
Test reports are attached to this report.

Description	Serial No
TK-3C DN25 water meter	24915974

R.5.6. Loading / Unloading

N/A

Σ A

Boss Order No 50031512
File (WI) No 25-0097

Report No: IND435

R.5.7. Others

N/A

R.6. Non Conformities

N/A

R.7. Actions required

N/A

R.8. Conclusion

Visual inspection was performed on the water meters. The goods were seen brand new and without damage.

Performance, Pressure and Head Loss tests were performed under our witnessing. Test results were found satisfactory.

Pulse outputs were functionally tested under our witnessing. It generates a pulse at the rate of at least per 100 lt. Result found satisfactory.

IP68 test of water meter was performed under our witnessing. Test result found satisfactory.

Technical specifications of the water meters were checked according to Compliance sheet of 25 mm (DN25) Domestic Water Meter. Details are given in R.5.1.

R.9. Attachment List

Test reports
Calibration Certificates
Accreditation Certificate
INTECON Certificates
TS EN ISO/IEC 17025 certificate
Quality System Certificates
IP68 reports
Casting Report
Material Data Sheet of Plastic Material of Internal Pressure Cup
Mineral Glass Test Report

This report supersedes our previous Report No. IND398 dated 21.04.2025.

The above reflects our findings at time and place of inspection. This report does not release buyers or sellers from their contractual responsibilities, nor does it prejudice buyer's right of claim toward sellers/suppliers for compensation for any apparent and/or hidden defects not detected during our inspection or occurring thereafter.

Authorized Specialist: Hakan Zorlu, Metallurgy Engineer

Issued in Istanbul

On 26th May, 2025

For and on behalf of
SGS Supervise Gözetme Etüd
Kontrol Servisleri A.Ş.
ERSİN ATIL
SGS

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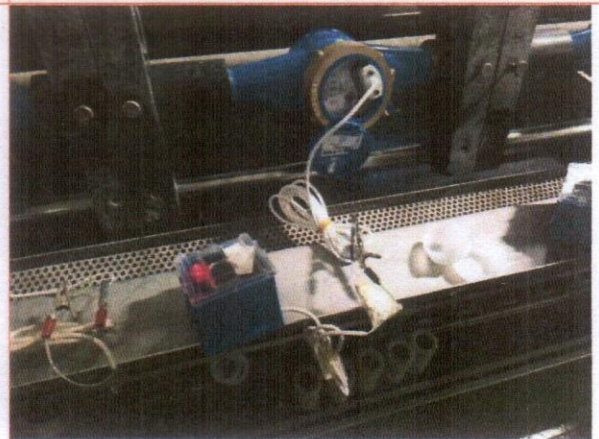
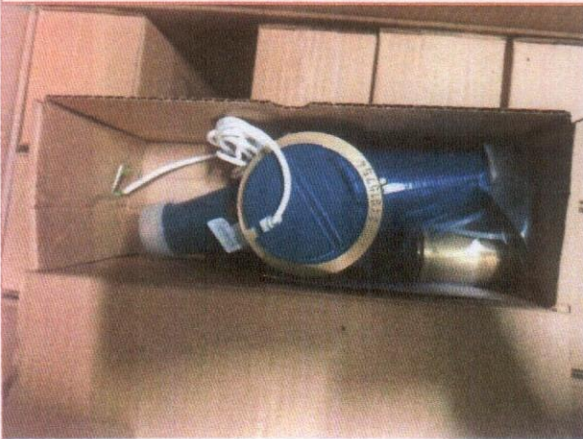
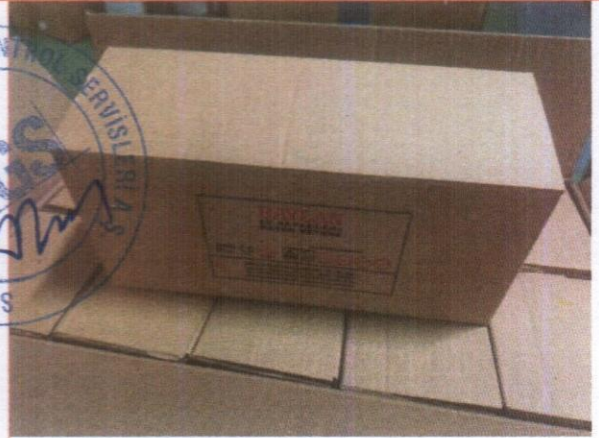
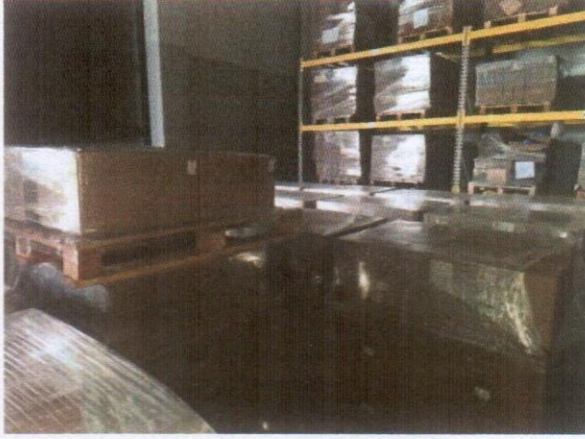
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File (WI) No

25-0097

Report No: IND435

Inspection Photos



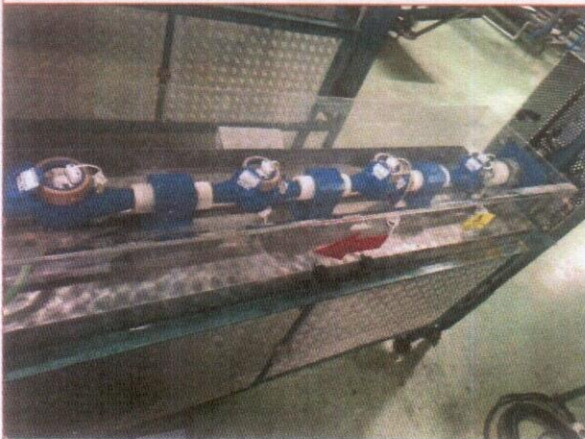
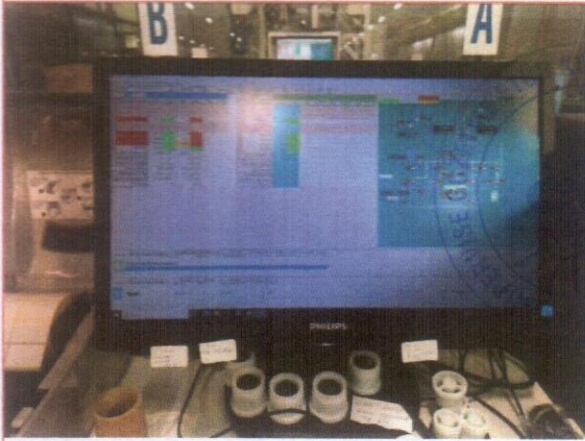
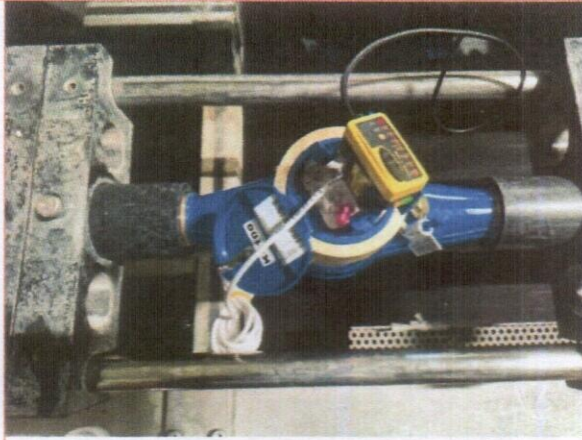
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25-0097

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50031512

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25-0097

