

Speed Post

WM-19(52)/2019
Government of India
Ministry of Consumer Affairs, Food and Public Distribution
Department of Consumer Affairs
Legal Metrology Division

Krishi Bhawan, New Delhi-01
Dated: 31.7.2019

To,
The Controller of Legal Metrology,
All States/UTs

Subject: Modification of metallic cover plate housing E-Cal card and Controller Card in GVR DUs – Clarification.

Ref: CLM, UP Letter No. 310/2019 –asking for sealing diagram.

Sir,

The undersigned is directed to refer to the earlier communication made by this office vide letter of even number dated 17.6.2019 and 19.7.2019 (copies enclosed).

2. Vide above communications permission/ approval was granted to upgrade the dispensing units of M/s. Gilbarco Veeder Root India Pvt. Ltd. (GVR), Mumbai to ensure tamper proof working. Subsequently a reference has been made by Controller, L. M. of UP Government requesting for a copy of the sealing diagram.

3. The modifications proposed by the manufacturer were demonstrated to the team consisting of OMCs, LM officer of UOI and CLM, UP (report enclosed) which included provision of controller card and E- calibration card under one metallic housing with common Legal Metrology Seal.

4. The modified sealing diagrams in models of Dispensing Units (Approval Marks No. IND/09/11/49, IND/09/11/50, IND/09/15/450 and IND/13/18/367) as proposed by GVR (copy enclosed) are approved and enclosed herewith for kind information.

Yours faithfully

Ashutosh Agarwal

(Ashutosh Agarwal)
Deputy Director (Legal Metrology)
For, Director, Legal Metrology
Phone 011-23386194
Email: ashutosh.agarwal13@nic.in

Copy to: 1. M/s. Gilbarco Veeder Root India Pvt. Ltd., Mumbai for kind information.
2. All Oil Marketing Companies

Speed Post

WM-19(52)/2019
Government of India
Ministry of Consumer Affairs, Food and Public Distribution
Department of Consumer Affairs
Legal Metrology Division

Krishi Bhawan, New Delhi-01
Dated: 19.7.2019

To,
M/s. Gilbarco Veeder Root India Pvt. Ltd.,
Mumbai

Subject: To modify metallic cover plate and shifting E-Cal card in GVR DUs – permission to modify sealing -reg.

Sir,

The undersigned is directed to refer to the earlier communication made by this office vide letter of even number dated 17.6.2019 (copy enclosed).

2. Vide above communication in principal permission was granted to OMCs to get the dispensing units of M/s. Gilbarco Veeder Root India Pvt. Ltd., Mumbai upgraded to ensure tamper proof working in the short term as well as for the long term.

3. The modifications proposed & demonstrated which includes provision of controller card and E- calibration card under one metallic housing with common Legal Metrology Seal to avoid access to both the cards, may be done to upgrade the existing DUs, to ensure tamper proof working in the short term.

4. It is further directed to upgrade software to ensure that any tapering or alteration of hardware or software will result in the dispensing unit to stop functioning. The dispensing unit should only start functioning after authorized recalibration through one time password (OTP).

Yours faithfully

Ashutosh Agarwal

(Ashutosh Agarwal)
Deputy Director (Legal Metrology)
For, Director, Legal Metrology
Phone 011-23386194
Email: ashutosh.agarwal13@nic.in

3/7/19

Copy to: The Controllers of Legal Metrology of all States/UTs for kind information.

Copy for information to:

1. All Oil Marketing Companies
2. M/s. Tokheim India Pvt. Ltd., Mumbai
3. M/s. General Energy Management Systems Pvt. Ltd. New Delhi
4. M/s Tatsuno India Pvt. Ltd., Mumbai

WM-19(52)/2019
Government of India
Ministry of Consumer Affairs, Food and Public Distribution
Department of Consumer Affairs
Legal Metrology Division

Krishi Bhawan, New Delhi-01

Dated: 17.06.2019

To,

1. Hindustan Petroleum Corporation Limited,
17, Jamshedji Tata Road,
Mumbai- 400 020

2. M/s Indian Oil Corporation Limited,
Indian Oil Bhawan,
G-9, Ali Yavar Jung Marg,
Bandra (East) Mumbai- 400051

3. M/s Bharat Petroleum Corporation Ltd.,
Bharat Bhawan,
4 & 6 Currimbhoy Road, Ballard Estate,
Mumbai- 400001

Subject: To modify metallic cover plate and shifting E-Cal card in GVR DUs – reg.

Sir,

The undersigned is directed to refer to the earlier communications made by this office vide even number dated 2/2/2018 and 15/3/2018 (copies enclosed).

2. Vide above communications provisional permission was granted to upgrade existing Dispenser Units on the request of Oil Marketing Companies to prevent tampering. This permission was granted subject to recommendations of certain security features being incorporated in the upgraded Dispensers. These features included facility of OTP for any Hardware Change, pulser validation and verification/ stamping; pulser to be non-openable, self-destructive, potted and magnetic; to have family integrity and the software with 128 bit end to end encryption.

3. It is requested to confirm that:

Issued
17/6/19

- (1) The security features available in the upgraded Dispensers are in line with the recommendations made by this office.
- (2) If compliance to these security features was obtained from C-DAC or any other Government Laboratory and to forward copy of such compliance certificate.
4. Further, corrective measures in respect of dispensing units of M/s. Gilbarco Veeder Root India Pvt. Ltd., Mumbai found to tampered is to be demonstrated physically to a team consisting of representatives of OMCs, Director (LM) and Controller (LM), Government of UP.
5. Also, in principle approval is being granted to OMCs to get the dispensing units of M/s. Gilbarco Veeder Root India Pvt. Ltd., Mumbai upgraded to ensure tamper proof working in the short term as well as for the long term.
6. It may be noted that it is the responsibility of the OEMs to have tamper proof design, to prevent any fraudulent practice. Thus all the OEMs of dispenser may be asked to submit an undertaking signed by the Director of the Company that the dispensers available in field are tamperproof. The said undertaking will also be submitted for all new models of dispensers.

Yours faithfully,

Ashutosh Agarwal

(Ashutosh Agarwal)
Deputy Director (Legal Metrology)
For, Director, Legal Metrology
Phone 011-23386194
Email: ashutosh.agarwal13@nic.in

Copy to: The Controllers of Legal Metrology of all States/UTs for kind information.

Copy for information to:

1. M/s. Gilbarco Veeder Root India Pvt. Ltd., Mumbai
2. M/s. Tokheim India Pvt. Ltd., Mumbai
3. M/s. General Energy Management Systems Pvt. Ltd. New Delhi
4. M/s Tatsuno India Pvt. Ltd., Mumbai

Demonstration for Security Upgrade Solution on GVR Dispensing Units

Minutes of meeting for the security upgrade solution demonstration at GVR Manufacturing Facility - Coimbatore, Tamil Nadu.

As per the letter no. *WM-19(52)/2019 dated 17/06/2019* from the Legal Metrology Department, Delhi mentioned under Point No. 4, "Further, corrective measures in respect of Dispensing Units of M/s. Gilbarco Veeder Root India Pvt. Ltd., Mumbai found to tampered is to be demonstrated physically to a team consisting of representatives of OMCs, Director (LM) and Controller (LM), Government of UP."

The proposed short-term corrective measures were demonstrated physically on one of the GVR Dispensing Unit as mentioned below:

- The existing mechanical sealing covers for the Controller card and E-Calibration Card were replaced by a new mechanical sealing cover, after the application of which the physical access to the Controller card & E-Calibration card is prevented from outside. The replacement of the existing covers with the new cover was demonstrated.
- Mechanical sealing cover on Display Card to prevent access to sensitive areas.
- "No Calib" error occurs on the Main Display panel when the E-Calibration Card is replaced with another unauthorised E-Calibration Card during runtime as well as in Power-Off condition. Once "No Calib" error is detected, the Dispensing Unit stops dispensing and can be brought back to operation only after performing a fresh calibration process as proposed by OEM and gets recorded in Calibration Logs.
- Error Logs were checked which are increased from 20 to 50
- Calibration Logs with Date & Time, Calibration Count, New K-factor, Nozzle No., & Totaliser were also verified.

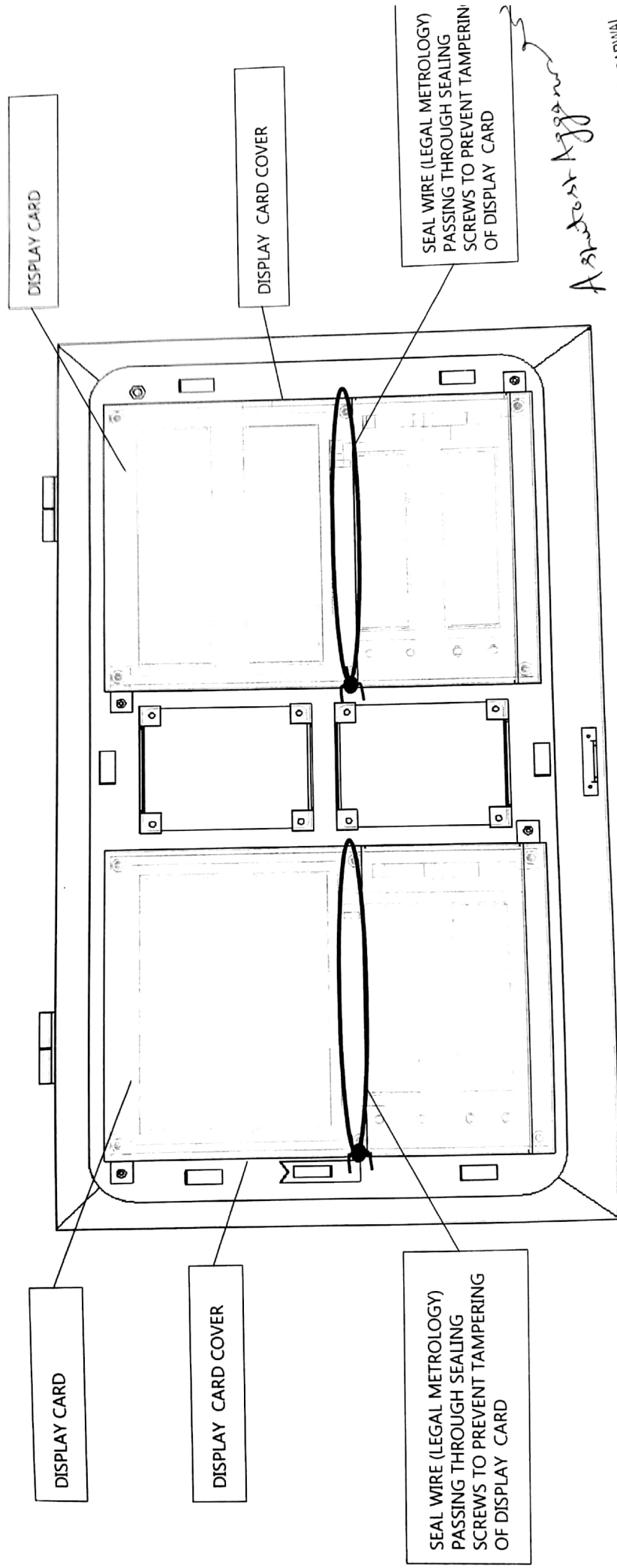
The responsibility of offering the solutions for tamper proofing of Dispensing Units lies with OEM, with these proposed modifications, OEM undertakes that these modifications will prevent tampering of DUs from all current known methods related to any unauthorized change in hardware/software which affects the measurement and delivery accuracy, and would disable the DU operation.

The proposed solution as listed above has been witnessed by all the team members listed below:

- Mr. Sunil Kumar Verma - Controller LM (UP) *Singh*
- Mr. Shailendra Singh - Asst. Director LM *SR*
- Mr. Murali Mohan Reddy - HPCL *Murali Mohan Reddy (DGM-RV)*
- Mr. Sandeep Deshpande - BPCL *Sandeep Deshpande SMF, BPCL*
- Mr. Ankush Balyan - IOCL *Ankush Balyan (Chief Mgr (RS-IS))*
- Mr. Yogesh Tiwari - IOCL *Yogesh Tiwari (SMIS) IOCL*
- Mr. T.M Jeyakumar - GVR *T.M Jeyakumar Operations Director*
- Mr. Vineet Mittal - GVR *Vineet Mittal Sales Director*

Proposed Solution: Display Card Sealing

Model Approval Numbers : IND/09/11/49, IND/09/11/50, IND/09/15/450 and IND/13/18/367



Ashutosh Agarwal

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Deputy Director Legal Metrology
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