

# MINISTRY OF PETROLEUM RESOURCES

## DEPARTMENT OF PETROLEUM RESOURCES

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Ref. No: DMR/CTO/COA/COM/V.3/139

Date: 3<sup>rd</sup> September, 2018.

The Managing Director  
Shell Petroleum Development Company of Nigeria Ltd,  
21/22 Marina Lagos.  
P.M.B 2418, Lagos.

Dear Sir,

### RE: CONCERN OVER CRUDE OIL INJECTION RECONCILIATION FACTOR

Reference is hereby made to the studies conducted on Agar Water Cut Meter (WCM) at Agar Corporation in Houston Texas in September 2017, and the follow-up field testing of the WCM at your Imo River-1 Flowstation in May 2018.

After a careful review of the results obtained from the exercises, I have been directed to convey to you Director of Petroleum Resource's approval to continue with the installation of the Agar WCM at your flow stations as requested.

However, this approval is subject to the following:

- I. A static mixer must be installed upstream of the Water Cut Meters obtained from the same OEM to ensure compatibility and functionality.
- II. Upon installation and successful commissioning, a factor will be generated based on data obtained during pre-commissioning tests. The factor so obtained will be used to correct measurements of the WCM whenever excess water is observed at the terminal of the relevant network.
- III. The conventional Autosampler still remains the primary means of water measurement In line with the prevailing Procedure Guide for the Determination of Quantity and Quality of Petroleum and Petroleum Products in Nigeria.
- IV. It is statutorily required that for every new critical equipment, the operator shall ensure institution of a staff training program for the deployment, operation and maintenance accordingly. In the spirit of joint interest and responsibility, you are required to involve DPR staff in such trainings.

Yours Faithfully,

A handwritten signature in black ink, appearing to read 'I. Onyeri'.

I.C. Onyeri (Mrs.)

For: Director of Petroleum Resources