

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM & NATURAL GAS
RAJYA SABHA
UNSTARRED QUESTION NO-2223
ANSWERED ON- 20/03/2023

AUDIT REPORT ON WATER INJECTION OPERATION OF ONGC

2223. SHRI ELAMARAM KAREEM:

Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state :-

- (a) the actions taken by Government on Audit Report of C&AG (No. 19/2021) compliance Audit;
- (b) whether Government has decided to replace the obsolete and dilapidated pipelines in the interest of safety and revenue, if so, the details thereof, if not, the reasons therefor;
- (c) the revenue loss incurred by ONGC till date due to this leakage in Sub- Sea Well Fluid Line and Water Injection Line in the Western Offshore and other areas; and
- (d) the manner in which Government is planning to address this issue?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS
(SHRI RAMESWAR TELI)

(a) Major actions taken on the Compliance Audit Report of C&AG (No. 19/2021) inter alia include the following:

- Enhanced Oil Recovery (EOR) pilot project on Low Saline Water Flooding (LSWF) with envisaged incremental gain of 0.795 Million Metric Tonne (MMT) oil has been taken up from 08.06.2022.
- All the five water injection platforms in Mumbai High Asset have been revamped and new Water Injection (WI) Platform with normal and low saline water injection facility commissioned to cater the desired quality of injection water for the field.
- Profile Modification jobs have been taken up in water injector wells to plug off zones of higher permeability to divert the injected water to low permeability zones to increase sweep efficiency of the water flooding.
- All installation of online flow metres at wellhead platform connected to Supervisory Control and Data Acquisition (SCADA) system.
- Entire Water Injection network is covered for corrosion monitoring by corrosion probes. Continuous chemical dosing is done so as to get desired water quality and quantity parameters.
- Review of water injection by international expert agency Giffney, Cline Associates (GCA) for adequacy and course correction.

(b) Pipeline maintenance is a routine activity for repairs/replacements to prevent leakages/failures. 60 WI line segments have been replaced under various Pipeline Replacement Projects so far.

(c) & (d) As per Compliance Audit Report of C&AG No. 19/2021, the deficient water injection impacted loss of production of crude worth Rs 7802.50 crore to ONGC and revenue loss of Rs.3474.29 crore to Government of India during 2014-2015 to 2018-2019. As soon as any leakage is detected, wells are closed, the particular pipeline is shut down immediately and the process for repair is initiated. Production during repair of leakages in well fluid lines is deferred and the same is recovered post repair job during the life cycle of the field. Root Cause Analysis for failure of pipelines and health assessment of pipelines is carried out to minimize pipeline leakages. Furthermore to minimize leakages due to corrosion, all newly installed Water Injection Pipelines and new well fluid lines are internally coated apart from regular dosing of corrosion inhibitor.
