

Annex F

## Investigation Report

**Investigation Report of CEMS Exceedances**

Date	1 - 31 October 2021
Time	Continuous monitoring throughout October 2021
Monitoring Location	Continuous Environmental Monitoring System (CEMS)
Parameter	Various emission parameters of the Ammonia Stripping Plant (ASP)
Exceedance Description	<p>1. Continuous monitoring was carried out at the CAPCS, CHP and ASP throughout the reporting period using the CEMS. According to the EM&amp;A Manual, exceedance is considered if the emission concentration of the concerned pollutants is higher than the emission limits stated in Tables 2.2, 2.3 and 2.5 of the EM&amp;A Manual (Version F) for CAPCS, CHP and ASP respectively. The concentration of the concerned air pollutants were monitored on-line by the CEMS. Exceedances of various emission parameters were recorded on the CEMS including:</p> <ul style="list-style-type: none"> <li>• NO<sub>x</sub>, VOCs and NH<sub>3</sub> in the ASP</li> </ul> <p>2. The Contractor explained the exceedances occurred due to system instability caused by unstable stripping column temperature, blockage of stripping column and high ammonia content in the ASP inlet.</p>
Action Taken / Action to be Taken	<ul style="list-style-type: none"> <li>• To ensure stripping efficiency and stable operation of the ASP, the Contractor has arranged acid cleaning for the stripping column in this reporting month and packing cleaning in the next reporting month.</li> </ul>
Remedial Works and Follow-up Actions	<p>The Contractor is recommended to closely monitor the processes, including the modification works and follow-up emission monitoring of the ASP to avoid exceedance.</p> <p>As similar issues have re-occurred in the ASP for sometimes, the Contractor is advised to undertake a comprehensive review of the operation of the concerned systems and the effectiveness of the existing mitigation measures and proposed further measures to avoid the exceedance.</p>

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Date: 11 November 2021