

REVIEWER'S REPORT

Manuscript No.:IJAR-59018

Title: Mesure de la demande biologique en oxygène (DBO5) des eaux usées de tannerie,

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality		Good		
Clarity		Good		
Significance		Good		

Reviewer's ID: JPR-115 Dr Thirunahari Ugandhar

Detailed Reviewer's Report

Review Comments

The manuscript addresses an important environmental issue: assessing BOD₅ in tannery wastewater. The topic is relevant, and the use of the OxiTop® system is appropriate. However, the manuscript requires major revisions before publication.

1. The **abstract and introduction should be revised** for clarity, grammar, and scientific accuracy.
2. The **sampling procedure** should provide clear information on sampling sites, dates, sample preservation, and the number of replicates.
3. The **OxiTop® methodology** requires more detailed description, particularly incubation temperature, sample volume, dilution, measurement range, and standard protocol followed.
4. The statement regarding **ISO 5815-1 and the 200 mg/L limit should be verified and correctly referenced**, as ISO 5815-1 primarily describes the BOD₅ measurement method.
5. The **microbial identification methodology** needs clarification, particularly the justification for identifying “chimiotrophes” and the Vitek 2 procedure.
6. Results should be presented with **mean ± SD, minimum–maximum values, and appropriate statistical analysis** for the different sampling sites.
7. The relationship between **bacterial density and BOD₅** should be considered, if sufficient data are available.

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8. The discussion should better explain the reported BOD₅ range (20–31 mg/L) and compare it with relevant published studies.
9. The role of **chromium** should be discussed only if chromium was actually measured; otherwise, this should be clearly stated as background information.
10. The manuscript requires careful language editing and correction of typographical and formatting errors.

Recommendation: Major Revision

The study has potential scientific and environmental relevance, but substantial revision is necessary to improve its methodological rigour and presentation.