



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Asian Journal of Biology
Manuscript Number:	Ms_AJOB_36619
Title of the Manuscript:	WATER QUALITY STATUS OF RIVER DONAN DUE TO OPERATIONAL REFINERY PERTAMINA UNIT IV CILACAP-CENTRAL JAVA-INDONESIA
Type of Article:	Case study

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>Major revisions are necessary</p> <p>Asian Journal of Biology – Ms_AJOB_36619 The title of the manuscript is "Water quality status of river Donan due to operational Refinery PERTAMINA Unit IV Cilacap Central Java-Indonesia".</p> <p>I have read with interest this manuscript after very little revisions. However, there are lot of spaces for improvement. No correlation index was used to determine the relations of detected data (still need to be done). In the river ecosystems, the main factor controlling the quantity of phytoplankton is the water discharge. Please refer to the water discharge of Donan River and try to find out if there is any correlation with phytoplankton. The manuscript still seems to be incomplete. Hence, in the current form the manuscript cannot be accepted.</p> <p>-In the "Abstract" section: Please try to modify as follows:</p> <ul style="list-style-type: none"> The sub-section of Objective: would be rewritten to be: This study aims to analyze the water quality of Donan River due to the waste discharged from the installation of waste water treatment plant unit IV of the State Oil Company of Indonesia. The sub-section of Methodology: <p>In line 22: would be rewritten to be: Water sampling was done at two sampling points.</p> <ul style="list-style-type: none"> The sub-section of Results: <p>In line 24: would be rewritten using (.) instead of (,) and releasing (mg/L) after BOD or COD in line25. Also, after DO in line26 should be done.</p> <p>-Rewritten of keywords is still necessary.</p> <p>-The "Introduction" section also would be reconstructed to cover a wide part of literature which has been carried out on the same or on any other related subject either in this country or any other part of asia. Better if the description of the study area could be moved to a separate section.</p> <p>-Page 2: In line 50: Please rewrite the sentence to be: Refinery Unit (IV) Cilacap is located on</p> <p>-Page 3: In line 57 Please change which to be which allows.....</p> <p>-Page 3: In line 61: Please put (.) at the end of this line.</p> <p>-Page 3: In line 62-63: please rewrite this sentence to be: The environmental aquatic components are expected to be affected by the development of the Wax Unit.</p> <p>-Page 3: In line 65: please delete (in) and write: The water in.....</p> <p>-Page 3: In line 69: please delete (the) between (of) and (sea).</p> <p>-Page 3: In line 70: please write (and) before (addition) and release (rivers) between (river) and (Donan).</p> <p>-Page 3: In line 70: please site reference(s) at the end of the first sentence.</p> <p>-Page 3: In line 77: please write (.) after utilization and start the second sentence with (It).</p> <p>-Page 3: Please cite reference(s) in line 80: please site reference(s) after plankton-benthos. Please start the next sentence with (Dissolved) and release (oxygen) oxygen.</p> <p>-Page 3 in line 83: Please cite reference(s) after NH₄, also, please write (T)he and delete (BODBOD).</p> <p>-Page 3 in line 84: please delete (Aero Bik), and write (w)hile instead of (W)hile. Also, write (the) instead of (a).</p> <p>-Page 3 in line 85: Please write (r)equired instead of (R)equired.</p> <p>-Page 3 in line 87: Please cite reference(s) after degraded.</p> <p>-Page 4 in line 91: please use (was) instead of (is).</p> <p>-Page 4 in line 93: please delete (that) between (indicate) and (the) and cite reference(s) after pollution levels.</p> <p>-Page 4 in line 94: please delete (in ecological).</p> <p>-Page 4 in line 95: please change (planton) to be (plankton).</p> <p>-Page 4 in line 96: please cite reference(s) after environmental changes and change (sapometry) to (saprobic).</p> <p>-Page 4 in line 99: please cite reference(s) after (water). Also, change (oligosaprobik) to (oligosaprobic).</p> <p>-Page 4 in line 101: please cite reference(s) after (multiply well).</p> <p>-Page 4 in line 102: please rewrite this sentence to be: ...chlorophyceae such as.... and please write the names of algae in italic.</p> <p>-Page 4 in line 101-108: please rewrite this paragraph writing the</p>	



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names of algae in italic and cite suitable and new references.
-In the "Material and Method" section, the study area has to be described in a separate paragraph (this was mentioned before in the first revision) and still needed to be addressed.
-The map still far from clear. Please try to provide a clear one for showing the investigated sites in the river.
-The section of "Material and Method" has to be reconstructed to describe in more details the date of sampling, how did the samples were collected for phytoplankton and zoobenthos determinations, what was the size of each collected sample, the preservation methods and treatments for further laboratory and microscopic examinations. For the biological parameters (phytoplankton or zoobenthos), please show the keys used for identification and describe how quantitative determinations were carried out.
-It is also necessary to rewrite the section of material and methods with a special reference to the methods used in data analysis (for instance diversity index).
- In the "Results and Discussion" section:
-Page 6: lines 145-150: please move this paragraph to the section of study area.
-Page 6: table 1
Please reconstruct this table with some corrections and use (.) instead of (,) for numerical data.
- As it is clearly known by the scientific community, one of the most important parts of a manuscript is "discussion" section. The discussion section of this manuscript seems to be not in good level but it would be better to make some comparisons of detected data with national and international similar studies with citing appropriate references.
-Page 9: table 2 also should be reconstructed and please use genera instead of species or type. Don't use (,) in numerical data, please use (.).
-Page 9: lines 228 -236: please move to the section of material and methods or to a subsection of data analyses.
-Page 9: In the paragraph (line 238-245), please rewrite and cite appropriate references. Also use genera or genus instead of type for plankton or benthic organisms in page 9 and 10. The last paragraph pages (9-10) should be reconstructed using appropriate references.
-Page 10: table 3 should be reconstructed taking in account the noticeable modifications that were mentioned for table2.
Page 11. The section of conclusion would be rewritten considering only the most concluding remarks in a well-constructed small paragraph. A good sentence recommending further investigations on the same area and the whole river would be added.
-The "Reference" section still has to be rewritten following the traditional methods in listing literatures.
- The scientific English of the manuscript is still quite weak but it needs major revisions and the vast majority of sentences in the text have to be re-written again. English revision is necessary. The presentation and discussion of the study is still in a weak scientific level. But the manuscript needs much more effort for improvement to make the article more powerful and more meaningful. The references in the manuscript did not cover the new and modern literatures.
Generally, this manuscript would potentially interest for the readers of Asian Journal of biology. So I think that the manuscript should be returned back to the author for major revisions. Afterwards it may be considered again for Asian Journal of Biology.

Reviewer Details:

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