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| Book Name: | [Engineering Research: Perspectives on Recent Advances](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4261** |
| Title of the Manuscript:  | **STUDY ON COUNTERMEASURE OF SCOUR IN DOWNSTREAM OF WEIR STILLING BASIN USBR TYPE** |
| Type of the Article | **BOOK CHAPTER** |

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| PART 1: Comments |
|  | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This research studied scouring downstream of spillways, which has received little attention. Despite its Disadvantages, it has a chance of being published as part of hydraulics books.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** |  **yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **yes** |  |
| **Is the manuscript scientifically, correct? Please write here.**  |  **yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **The reference can be improved by adding items such as calculating the equilibrium time, the location of the spillway to the channel entrance, the channel discharge, papers related to countermeasure, ....** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **yes** |  |
| Optional/General comments | 1. It is recommended to investigating scour process in one section.
2. First of all, the authors should review the various type of dcountermeasure. Then explain in detail the reason for choosing the rip rap.
3. Please explain the important criteria to choose a sand sediment diameter.
4. Please explain the instruments used to measure the flow velocity, flow discharge and scour depth.
5. There are many equations for calculating the equilibrium time. Please specify which equation is used in this paper? And explain the criteria for choosing this equation. And also what is led to te=120 min?
6. Explain the criteria to select the flow discharge 10.9, 20.6, 26.7 and 28.8?
7. It is mentioned that the Reynolds number is effective parameter in pipelines. While the Froude number is used in channels and chutes. Why did the authors pay attention to studying the effect of the Reynolds number on scouring? Please present few ferences about this.
8. The authors explain that the spillway was placed 9 meters from the channel entrance, why did mention the ±9 m ? please mention the criteria to determine the spillway location.
9. Please add a table which is consist the time to reach equilibrium for each 54 experiments.
10. Please explain about the headings of the first and second columns of Tables 3.1, 3.2, 3.3, and 3.4.
11. In one table, mention the values ​​for u/uc for each 54 experiments.
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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** |
| Name: | **Habibeh Ghodsi** |
| Department, University & Country | **Kermanshah University of Technology, Iran** |