



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2015_BJAST_17358
Title of the Manuscript:	STRUCTURAL BEHAVIOR OF WEIRS WITH BOTTOM CIRCULAR OPENINGS
Type of the Article	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
Units of vertical axes in Figs. 7 and 8. Explain the total deformation or the maximum deformation <i>in the text not to me and define the related symbols</i> . You have 6 equations Eqn. 1 relationship between max shear stress and max. tensile stress, Eqn. 2 between max. deformation and max. tensile stress (write units) , Eqn. 3 maximum tensile stress in terms of P, d, and Q, Eqn. 4 total deformation in terms of P, W ,and Q, Eqn. 5 max. shear stress in terms of P, d, and Q , and Eqn. 6 maximum compression stress in terms of P, d, and Q . <i>Comments</i> (i) you have six equations not four you can mention the other two eqns. in the conclusions. (ii) these equations could be written in dimensionless forms, however write units for every eqn. (iii) do you think that the diameter of the circular opening has no effect on the deformation specially you mentioned in the conclusions that this diameter ranges from 0.25 m to 0.75 m <i>or</i> it has no effect, (iv) where is the figure of Eqn. 2 as you did in Eqn. 1 (v) numbering of eqns. should be on the same vertical line; line 94 correct to <i>depths resulting from the fluent models (Y_{calculated}) versus the corresponding experimental ones (Y_{Measured})</i> are plotted.. In conclusions, line 274 ranges not range	All comments were noted. For comment (ii), equations could be written in dimensionless forms, but some properties should be used like the gravitational acceleration, density of water, ...etc. that's the reason of using these empirical forms. For comment (iii) the values of maximum deformation resulted from the model are small (<0.1mm) which could be considered as unaffected. (Added to the conclusion).