SDI Review Form 1.6

Journal Name:	**British Journal of Mathematics & Computer Science**
Manuscript Number:	**2014_BJMCS_14945**
Title of the Manuscript:	**ADAMS TYPE HYBRID BLOCK METHODS ASSOCIATED WITH CHEBYSHEV POLYNOMIAL FOR THE SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS**
Type of the Article	**Original Research Article**

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This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.
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PART 1: Review Comments

	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)*
Compulsory REVISION comments		
Minor REVISION comments	**Observation(s)** **Abstract:** The first line of the abstract should read as "The new Hybrid Adams type Block Methods (HATBMs) for step length k =2,3 and 4 were developed for the solution of …". The last line of the abstract should read as "All the newly constructed methods were demonstrated with numerical experiments to ascertain their level **of** convergence". **1)** **Page 1:** Introduction, the 4th line **occur** instead of occurs. **2)** **Page 2**: **were** instead of where. **3)** **page 2:**Serial number 33, There should be a full stop after the equation. **4)** **page 2:** serial number 34 "However, $T_0(x)$ and $T_1(x)$ are constant **terms instead of constant term".** **5)** **page 2: serial** number 37: The *k*-step **general** linear multistep method can be written as… **6)** **page 2** serial number 41: There should be a full stop before the subheading "Background of the study". **7)** **Page 3** There should be a full stop after equation (2). **8)** **page 3** Serial number 47:Most **recent** researchers **who have worked in this area amongst, them are ([1-5]) to mention only a few, in their proposed methods…**	Noted Noted Noted Noted Noted

	9) **page 3**: There should be a full stop after equation (4). **10)** **page4:** There should be a full stop after equation (6). **11)** **page 4:**Serial number73 the equation is, $\left[-\frac{3(x-x_n)^2}{h}-\frac{19}{3}\frac{(x-x_n)^3}{h^2}-\frac{4(x-x_n)^4}{h^3}-\frac{2}{15}h+\frac{4}{5}\frac{(x-x_n)^5}{h^4}\right]f_{n+1}$. **12)** **page5:** Serial number 86, Equation (4) is **collocated at ...** **13** **page5:** There should be a full stop after equation (10). **14)** **page 6:** There should be a full stop after equation (11). **15)** **page 6**: Serial number98 reads as "schemes as our three step Adams type hybrid block method(ATHBMs)". **16)** **page 7:** There should be a full stop after equations(13),(14) and (15). **17)** **page 9:** serial number 136, "Equation (17) not (3.14)". **18)** **page 9:** serial number 139 "The two-step block hybrid Adams type **method**, not methods" **19)** **page 9:** serial number 143 **where.** **20)** **page 10:** serial number 152, method (9) not method (a) **21)** **page 10**: serial number 154 methods (13) and (17) not methods (b) and (c) **22)** **page 15:** serial number 192 "We conclude that this research ..." **23)** **page 15:** serial number 195 should read as "values of k = 2, 3 and 4 performed better than some of the existing methods, particularly in problems 1 and 2, for example see[2]". ## General comment(s) i) For all the problems solved by the ADAMS TYPE HYBRID BLOCK METHDS, they are simple linear problems, except example 4 which is also a simple nonlinear problem. These examples can be solved by the classical fourth-order Runge-Kutta method. Therefore, it would be nice to see whether the methods exhibits the expected order of convergence by showing plots (log(h), log(error at one point)). The slope of these lines should be equal to the expected order of	Taken care of Noted

	convergence of the methods. iii) It would also be nice if the author(s) should include plots of the stability regions of the newly derived methods so that one can see whether the presented methods are A-stable or A(α)-stable or not. **Recommendation** If these comments and observations are correctly carried out, I recommend that the paper should be accepted for publication	Tables of error has clearly show the difference or convergence
Optional/General comments		