Review Form 1.6

Journal Name:	**Asian Research Journal of Mathematics**
Manuscript Number:	**Ms_ARJOM_74593**
Title of the Manuscript:	**POSITIVE SOLUTION FOR A SINGULAR FOURTH-ORDER DIFFERENTIAL SYSTEM**
Type of the Article	

General guideline for Peer Review process:

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	**1. Page 1:** $u^{(4)} = \varphi u + f(t, u, u''), \quad 0 < t < 1$ What is \varphi ? **2. Page 2:** **Lemma 1**. $K(t,s)$ has the following properties: (i) $K(t,s) > 0, \forall t,s \in (0,1)$; (ii) $K(t,s) \le K(s,s), \forall t,s \in [0,1]$; (iii) $K(t,s) \ge K(t,t)K(s,s), \forall t,s \in [0,1]$; (iv) $\lvert K(t_1,s) - K(t_2,s)\rvert \le \lvert t_1 - t_2\rvert$, for all $t_1, t_2, s \in [0,1]$ Proof of Lemma 1: (i), (ii), (ii) are easy to check. (iv): It should be added some comments to proof. **3. Page 2:** **Lemma 2** ([14]). Let E be a real Banach space and let $P \subset E$ be a cone in E. Assume Ω_1, Ω_2 are open subset of E with $\theta \in \Omega_1$, $\overline{\Omega}_1 \subset \Omega_2$, and let $Q : P \cap (\overline{\Omega}_2 \backslash \Omega_1) \to P$ be a completely continuous operator such that either (i) $\lVert Qu\rVert \le \lVert u\rVert$, $u \in P \cap \partial\Omega_1$ and $\lVert Qu\rVert \ge \lVert u\rVert$, $u \in P \cap \partial\Omega_2$; or (ii) $\lVert Qu\rVert \ge \lVert u\rVert$, $u \in P \cap \partial\Omega_1$ and $\lVert Qu\rVert \le \lVert u\rVert$, $u \in P \cap \partial\Omega_2$. [14] is a book, so adding the detail the page or which Lemma, Theorem to easy for reader. **4. Page 5:** $-(Tu)''(t) \ge K(t,t)\lVert Tu''\rVert_0$ for $t \in [0,1]$. Adding the symbol the end of proof Lemma 3 and other theorems or lemmas too **5. Pages 8-13, 16** $\lvert (Tu)(t_1) - (Tu)(t_2)\rvert \le$ Delete some symbols like this $\le \mu \int_0^1 \int_0^1 \lvert K(t_1,\tau) - K(t_2,\tau)\rvert\, K(\tau,s)\, u(s) \int_0^1 K(s,v)\, g(v,u(v),u''(v))\, dv\, ds\, d\tau +$ **6. Page 16**	

	$(B_\rho \backslash B_r) \cap P$, i.e. problem (3) has at least two positive solutions. Adding some examples to apply the theory to show that it has at least 1 (or some) positive solutions. **References** [1] C.P. Gupta, Existence and uniqueness theorems for a bending of an elastic beam equation, Appl. Anal. 26 (1988) 289-304. [2] C.P. Gupta, Existence and uniqueness results for some fourth order fully quasilinear	
Minor REVISION comments	No	
Optional/General comments	Revision the position of some formulas whole the paper. In the present version, it is a little not good.	

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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