

**NOC**



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**विषय/Sub:** Purchase of “**Non-Consumable item i.e. Time Series Analysis - Cosinor 8.0 Lab View software**”for Dept. of Physiology. at AIIMS, Raipur on Proprietary Basis – Inviting Comments Thereon.

The institute is in the process for purchase of “**Non-Consumable item i.e. Time Series Analysis - Cosinor 8.0 Lab View software**” for Dept. of Physiology at AIIMS, Raipur from Time Series Analysis & Forecasting Systems, Expert Soft Technologies, Laboratory of Applied Statistics & Biomedical Computing, France on proprietary basis. The Proposal submitted by Physiology at AIIMS, Raipur and PAC Certificate is attached which is to upload on website.

The above documents are being uploaded for open information to submit objection/comments, if any from any manufacture regarding proprietary nature of the reference No. Physiol/Admin/3946/2021/AIIMS/RPR. The comment should be sent to Dr. Meenakshi Sinha, Professor, Department of Physiology, AIIMS, Raipur (email : [sinham66@aiimsraipur.edu.in](mailto:sinham66@aiimsraipur.edu.in)) on upto or before 04.08.2021 upto 3:00 pm. Failing which it will be presumed that any other vendor having no comments to offer and case will be decided on merits.

Encl: Related documents enclosed (Specification and PAC)

**Dr.Meenakshi Sinha**  
**Principle Investigator,**  
**Professor, Department of Physiology,**

**AIIMS, Raipur**

**Dr. Meenakshi Sinha**

**प्राध्यापक (शरीर क्रिया विज्ञान)**

**Professor (Physiology)**

**अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर (छ.ग.)**

**All India Institute of Medical Science, Raipur (CG)**

## Specification for Time Series Analysis - Cosinor 8.0 Lab View software

**The scientific software for the rhythms analysis, time series analysis and forecasting.**

Able to combine the **Exploratory Data Analysis** approach (Tukey) applied to the graphical analysis of data in rhythmic phenomena and time series:

Scatter plot, run sequence plot, lag plot, autocorrelation plot, Normality plot with **powerful numerical statistical tests** (K-S test, Q test, KW test, and so on.)

This version allows researchers to use the entire range of "**Cosinor**" **methodology, Cosinor analysis** (Nelson, Bingham, Halberg) and complete (Confidence ellipses, modelisation, chronograms, polargrams, study of residuals, complete calculation of **chronobiological, chronobiometrical or chronoeconometric** parameters).

It also provides the **different spectral analysis and periodograms** : Jenkins and Watts, Lomb and Scargle (Scargle), Schwarzenberg-Cerny, Fourier, Burg MESA, Halberg, Gouthière : Reverse Elliptic, "Percent rhythm" to **find periods**.

Features are offered such as :

**Complex demodulations plots**, transformation of previous data (log, arcsin and so on), removing linear or polynomial trend, filters, variance homogeneity plot of residuals, the graphs of Normality of residuals and so on.

  
**डॉ. मीनाक्षी सिन्हा**  
**Dr. Meenakshi Sinha**  
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**All India Institute of Medical Science, Raipur (CG)**





Proprietary Article Certificate

File Number and Reference			
1	Description of article	Non-Consumable item i.e. Time Series Analysis - Cosinor 8.0 Lab View software	
2	Forecast of quantity/annual requirement	1 (one time purchase)	
3	Approximate estimated value for above	-----	
4	Maker's name and address	Time Series Analysis & Forecasting Systems, Expert Soft Technologies, Laboratory of Applied Statistics & Biomedical Computing, France	
5	Name(s) of authorised dealers/stockists	Expert Soft Technologies, France	
6	I approve the above purchase on PAC basis and certify that:- Note- Tick to retain only one out of (b), (c-1) or (c-2) whichever is applicable and cross out others. Please do confirm (a) by ticking it – without which PAC certificate will be invalid.		
6 (a)	This is the only firm who is manufacturing /stocking this item. AND	<input checked="" type="checkbox"/>	
6 (b)	A similar article in not manufacturing/sold by any other firm, which could be used in lieu OR	<input checked="" type="checkbox"/>	
6 (c-1)	No other make/brand will be suitable for following tangible reasons (like OEM/warranty spares): OR	<input checked="" type="checkbox"/>	
6 (c)	No other make/brand will be suitable for following intangible reasons (if PAC was also given in the last procurement cycle, please also bring out efforts made since then to locate more sources): OR	<input checked="" type="checkbox"/>	
Reference of concurrence of finance wing to the proposal (Action will be taken by stores & Account Department)		Budget sanctioned vide reference no 783/IEC- AIIMSRPR/2019	
History of PAC purchase of this item for past three years may be given below (if any): Nil			
Name of the Supplier		Time Series Analysis & Forecasting Systems, Expert Soft Technologies, Laboratory of Applied Statistics & Biomedical Computing, France	
Order/Tender reference & Date	Quantity Ordered	Basic Rate on order (₹)	Adverse Performance Reported if any

Name of the approving authority: Dr. Meenakshi Sinha

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Dr. Meenakshi Sinha  
प्राध्यापक (शरीर क्रिया विज्ञान)  
Professor (Physiology)

Date 28.07.2021

अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर  
All India Institute of Medical Science, Raipur  
Designation of Officer