Volume- I Number-I Year- 2021 ISSN: 0972-8392

# INDIAN CARTOGRAPHER

A Journal of the Indian National Cartographic Association (INCA)





# INDIAN CARTOGRAPHER

# A Journal of the Indian National Cartographic Association (INCA)

#### **ANNOUNCEMENT**

This is an official announcement on the august occasion of the 40<sup>th</sup> INCA International Congress, Kolkata that the **INDIAN CARTOGRAPHER** (A Journal of the Indian National Cartographic Association, INCA) herewith from 2021 will be published in the form of an Online Journal. The INCA fraternity is duly thanked for extending their whole hearted support and suggestions. The Journal shall be published as per specifications required for all academia, professionals, scientists and researchers to advance and showcase latest developments in this field. The Chairman- Editorial Board is pleased to invite research papers and research articles for the forthcoming issue at the email id: **editorinca.journal@gmail.com.** The details of the journal are given here below.

Name of the Journal : INDIAN CARTOGRAPHER

A Journal of the Indian National Cartographic Association(INCA)

 ISSN
 : 0972-8392

 OCLC Number
 : 637645018

Nature of Publication : Online and Hard Copy

Periodicity : Biannual

Publisher City/ Country : Hyderabad,India
Address : INCA Journal

Survey of India, Uppal

Room No.234, 2<sup>nd</sup> Floor, APGDC Block, HYDERABAD – 500 039.(Telangana).

Phone / Fax No.0402702217.

Email:secretarygeneralinca935@gmail.com

INCA Journal Website : http://www.incaindia.org/inca-journal

Chairman, INCA Editorial Board : Professor V C JHA

Department of Geography

Visva-Bharati

( A Central University )

SANTINIKETAN-731235, West Bengal

E-mail: vcjha@asia.com / editorinca.journal@gmail.com

Mobile: 9434348018

#### **Associate Editor**

- 1. S N Ojha, Visva -Bharati University
- 2. U N Mishra, Survey of India
- 3. Novaline Jacobe, Advanced Data Processing Research Institute
- 4. B K Ramprasad, National Hydrographic Office
- 5. Sanjeev Kumar Sinha, National Atlas and Thematic Mapping Organization

#### **Members**

- 1. Ravindra Kumar, Survey of India
- 2. Tarik Mitran, National Remote Sensing Centre
- 3. M P Gupta, National Hydrographic Office
- 4. Surya Kant, Panjab University
- 5. S C Rai, University of Delhi
- 6. Umesh Kumar Singh, Central University of South Bihar
- 7. Sulochana Sekhar, Central University Tamilnadu
- 8. Amartya Bhattacharya, National Atlas and Thematic Mapping Organization
- 9. Sucheta Mukherjee, S S College (Kalyani University)

# **Foreign Members**

- 1. H C Georg Gartner, Technical University Vienna, Austria
- 2. Wilhelm Zoltan, University of Pecs, Hungary
- 3. David G Dickason, Western Micchigan University, Kalamazoo USA

# **ABOUT THE JOURNAL**

**INDIAN CARTOGRAPHER** publishes peer-reviewed research work addressing the nature, scale and extent of the Maps, Digitalization and influence that citizenry have on local, focal, regional and global aspects of the Earth.

The UGC has prepared the Approved List of Journals that would be considered for the purpose of Career Advancement Scheme (CAS) and Direct Recruitment of Teachers and other academic staff as required under the UGC (Minimum Qualifications for Appointment of Teachers and other Academic Staff in Universities and Colleges) Regulation, 2016. The UGC-approved List of Journals consists of 1) Journals Indexed in WoS (Science Citation Index, Social Science Citation Index and Arts and Humanities Citation Index); 2) Journals Indexed in Scopus; 3) Journals Indexed in Indian Citation Index; 4) Journals Recommended by the Members of UGC Standing Committee and Language Committee (s); and 5) Journals Recommended by the Universities (after de-duplication). Total number of journals covered in the UGC-approved list of journals is around 32,000. Besides, 13,130 journals are ceased publications that are stored separately. Journal titles recommended for inclusion either by the Committee(s) or by the Universities (serials no. 4 and 5) were subjected to the checklist developed by the Standing Committee on Notification on Journals. Journal titles that scored 6 or more marks in Science, Social Sciences and Multi disciplinary category and 5 or more marks in Humanities on the checklist criteria were included in the UGCapproved List of Journals. Journal titles recommended by the universities that did not have ISSN number have not been included in UGC-approved List of Journals. Recommendations of various universities for titles that were invalid or did not qualify the checklist, have also not been included in this list.

The INDIAN CARTOGRAPHER A Journal of the Indian National Cartographic Association (INCA) will be published biannually and fulfilling the UGC – CARE List criteria.



# **INDIAN CARTOGRAPHER**

# A Journal of the Indian National Cartographic Association (INCA)

ISSN: 0972-8392

OCLC Number: 637645018 Chief Editor: Prof. V. C. Jha

Login

Home	About	Journal	<b>Submission Guidelines</b>	Contact us
	About the Journal	Presidential Address	Guidelines to Author	Contact Details
		Memorial Lectures		
	Editorial Board	Current Issue	Guideline to Reviewer	Advertise with us
	Former Chief Editors	Archive	Reproduction Permission	FAQ
	Institutional	Special Section		Feedback
	Members List	_		
	Journal Policies	Subscribe or Order		
		Journal		

# Home Page includes

- 1. Journal Logo, Title, About the Journal, Cover Page and Social Media Links, etc.
- 2. Recent Research Papers, Articles, Commentary, Correspondence
- 3. Book, Atlas and Map Reviews
- 4. Editor's Choice/ Editorials / Chief Editor's Message
- 5. Recent News
- 6. Announcement
- 7. Forthcoming Volume
- 8. Privacy Policy, Data Sharing Policy, Terms and Conditions, Hyperlinks to associated Institutions, FAQs

#### **About Section**

# 1. About the Indian Cartographer Journal

The *Indian Cartographer* Journal published by Indian National Cartographic Association (INCA) is an inter-disciplinary journal focused on research and development in the field of cartography, geography, geophysical sciences, geodesy, astronomy, geomagnetism and geo-spatial sciences. It is one of the India's leading journals since its inception in 1979 publishing research papers in cartography and allied disciplines etc. The journal encourages original, contemporary innovative articles which have advance knowledge in above disciplines.

# Indian Cartographer has the following aims:

- To promote research in the field of cartography
- To publish research papers for the advancement of cartography.
- To strengthen a sense of professional excellence among cartographers.
- To promote cartographic awareness about the recent development in Geo-Spatial technology.

# **Abstracting and Indexing**

One has to look if articles published in Indian Cartographer has been referred in other journals or indexed in journals that do indexing work. It is to be decided and added later (e.g.-Scopus, UGC care, Web of Science, DOJ etc.)

2. Editorial Board	2.	Ed	itor	ial	B	oar	ď
--------------------	----	----	------	-----	---	-----	---

S.No	. Name	Address	E-mail	Mobile/ Whats App Number				
CHIEF EDITOR								
1.	V C Jha	Visva -Bharati University	vcjha@asia.com vcjha@visva-bharati.ac.in	9434348018 9679984122				
ASS								
2.	S N Ojha	Visva -Bharati University	snojha2@gmail.com	8250282108				
3.	U N Mishra	Survey of India	un.mishra.soi@gov.in	9410393911				
		ř	©8	9014048102				
4.	Novaline Jacobe	Advanced Data Processing Research Institute	novalinejacob@gmail.com	9849490167				
5.	B K Ramprasad	National Hydrographic Office	bkrp1972@gmail.com	9897460899				
6.	Sanjeev Kumar Sinha	National Atlas and Thematic Mapping	sks.bhugeo@yahoo.co.in	9477772844				
	·	Organization	sanjeevkumar.sinha81@gov.in					
MEN	MBERS							
7.	Ravindra Kumar		ravindrakumar6870@yahoo.co.in	9491170291				
8.	Tarik Mitran	National Remote Sensing Centre	tarikmitran@nrsc.gov.in	7382145503				
9.	M P Gupta	National Hydrographic Office	guptamp1970@gmail.com	9412436699				
	_			9412923510				
10.	Surya Kant	Panjab University	surya.kant1949@gmail.com	9814666492				
11.	S C Rai	University of Delhi	raisc1958@rediffmail.com	9868943593				
12.	Umesh Kumar Singh	Central University of South Bihar	umeshjnu@gmail.com	8343029773				
			umeshsingh@cusb.ac.in	8918274814				
13.	Sulochana Sekhar	Central University Tamilnadu	sulochana@cutn.ac.in	8123127188				
14.	Amartya Bhattacharya	National Atlas and Thematic Mapping Organization	amartya1991@gmail.com	9476355388				
15.	Sucheta Mukherjee	S S College (Kalyani University)	sucheta.geo2012@gmail.com	9434553340				
FOREIGN MEMBERS								
16.	H C Georg Gartner	Technical University Vienna, Austria	gerg.gartner@tuwien.ac.at	+4315880112611				
17.	Wilhelm Zoltan	University of Pecs, Hungary	wilhelm@gamma.ttk.pte.hu	+36-30-9930717				
18.	David G Dickason	Western Micchigan University Kalamazoo USA	david.dickason@wmich.edu	30-30-7730/1/				

<sup>\*</sup>Dr. Sucheta Mukherjee, INCA EC Member will act as INCA Editorial Board Member Secretary

# 3. Subscribe

Detailed information and form for subscription of the online Journal

# 4. Institutional Members List

Institutional Member list will be provided here.

# 5. Journal Policies

# I. Objective and Scope

INDIAN CARTOGRAPHER publishes peer-reviewed research work addressing the nature, scale and extent of the maps, digitalization and influence that citizenry have on local, focal, regional and globalaspects of the Earth. It endeavours to encourage research in the field of cartography and to publish research papers/articles for the advancement of cartography, to strengthen a sense of professional excellence among cartographers and to promote cartographic awareness about the latest developments in geospatial technology.

Research Papers (not exceeding 6000 words): Should be unpublished, original, and with results of major significance. Structure should include an abstract, an introductory paragraph, brief subheads, statistical diagrams, maps, illustrations, tables, conclusion, acknowledgement (if any) and references.

**Research Articles** (not exceeding 4000 words): Writings, observations and research results should be of major significance. They should include an abstract, an introductory paragraph, brief subheads, illustrations, statistical diagrams, conclusion, acknowledgement (if any) and references.

**Review Articles** (not exceeding 4000 words) are expected to survey and discuss current developments in a field of Geospatial sciences.

**General Articles/ Opinion Articles / Commentary**(not exceeding 1000 words): Discuss current trends in research in the field of Cartography and Geospatial Sciences that would be of interest to readers outside the field. These include inter disciplinary topics, Geospatial policy and development, new ideas and findings, Success stories, applications of GIS and Remote Sensing. The articles must include appropriate background to the area with a brief introduction, observations, analysis and references.

Research Communications or Letters to the Chief Editor (not exceeding 1000 words): contain important new findings that are novel and of fairly broad interest and must include a brief abstract and an introductory paragraph. Text should NOT be broken up under subheads.

**Correspondence** (not exceeding 600 words): includes letters and technical comments that are of general interest to Geo-scientists, Researchers and Cartographers, including those on articles or communications published in Indian Cartographer journal within one year. Short letters are preferred. Letters may be reviewed and edited.

**News/Personal News** (not exceeding 200 words): can cover important events or any other news of interest to geo-scientists such as publication of Maps and Atlases, upcoming conferences/symposium/discussion-meeting, outcomes of past conference and meeting etc. conveying to readers the significance of important advances. This section can have personal **achievements**.

**Book Reviews/Atlas and Map Review** (not exceeding 1500 words): Reviews must be in brief, having short description about books, atlases and maps. Criticism and appraisal must be justified.

**Historical commentary/notes** (not exceeding 3000 words): Inform readers about interesting aspects of personalities or institutions of geosciences or mapping agencies, ssurvey events, old publications, survey and mapping equipments in the history / development of cartography as discipline. Illustrations and photographs are welcome. Brief items will also be considered.

#### **II. Peer Review Process**

Indian Cartographer is a journal focusing on the cartography i.e. art and science of mapmaking, and therefore research and review papers of significance that are written clearly and well organized will be given preference. All papers, solicited and unsolicited, will be first assessed by a Reviewing Editor. Papers found unsuitable in terms of the overall requirements of the journal will be returned to the authors. The others will be sent for detailed peer-review. Authors of these papers will be notified of acceptance, need for revision or rejection of the paper. It may be noted that papers once rejected cannot be resubmitted. Illustrations and other materials to be reproduced from other publications must be properly credited. It is the authors' responsibility to obtain permission for reproduction of figures, tables, etc. from published sources (copies of letters of permission should be sent to the editor).

# **III. Open Access Policy**

*Indian Cartographer* – Journal of the Indian National Cartographic Association (INCA) is an open access journal.

# **IV. Copyright Options**

Copyright allows to protect your original material, and stop others from using your work without your permission. Indian Cartographer reserves all copyright to the journal.

# V. Author Rights

Authors always has a copyright to use his /her materials for academic/research purpose.

#### **VI. Data Sharing Policy**

With the permission of the editorial board, INCA Journal.

# VII. Publication Charges

There are no submission fees, publication fees or page charges for this journal. Color figures will be reproduced in color in the online version completely free of charge.

# **VIII. Ethics Policy**

Authors need to be truthful in presenting their research outcome and conclusion. Misconduct in research is detrimental to knowledge. It can also misguide other researchers. Research procedure falsification, fabrication, selective reporting, and theft of data are not ethical. Every step of research procedure and outcome require to be preserved by the authors(s) to allow future review if necessary. In the post-publication period, data should be retained for at least a year and made available upon request. Used data should be properly cited and acknowledged.

#### IX. Authorship

The persons contributing significantly in a paper should be cited as authors. Other people with minor contributions to the work should be added in acknowledgement. The corresponding author should be mentioned if any Current institutional affiliations of the authors are mandatory.

# X. Change in Authorship

Authors are expected to consider carefully the list and order of authors before submitting their manuscript and provide the definitive list of authors at the time of submission of manuscript. Any addition, deletion or rearrangement of author names in the authorship list should be made only before the manuscript has been accepted and only if approved by the editor of the journal. To request such a change, the Editor must receive the following from the corresponding author: (a) the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed. Only in exceptional circumstances the Editor will consider the addition, deletion or rearrangement of authors after the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended. If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a corrigendum.

# XI. Plagiarism

Including self-plagiarism – in any form is not acceptable. Submission of same research outcome to more than one journal simultaneously is unethical. The work of others used in the paper should be properly acknowledged and cited. The journal follows a strict policy regarding plagiarism. The submitted article with similarity index of below 20% will only be forwarded for peer review.

#### XII. Revisions

All authors require to cooperate with the editors to provide prompt revisions in submitted papers. The decision of the Reviewers and Editors in acceptance / rejection of a paper is binding.

# XIII. Handling Research Misconduct

The main responsibility for dealing with research misconduct lies with the employer(s) of the researcher(s). If some misconduct is brought to the Editor's attention, opinion of the Referees will be sought and the matter will be discussed in the editorial board.

# Journal Search and Filter section (Search by Volumes, Issues, Authors and Category)

# 1. Current Issue:

Volume ...... - Issue ..... : 1 June 2021

Contents

Editorial

Research Papers

Research Article

Recent News (Especially on Cartography)

Commentary

**Book Reviews** 

Personal News (Achievements and Awards, Obituary ....)

# 2. Archive

All Previous editions/Volumes can be made available in the form of PDF, eBook...

# 3. Special Section

Any Special issues can be incorporated in this section.

**Forthcoming Papers and Articles:** List of accepted articles for next upcoming volume could be given here.

#### **Submission Guidelines Section**

Articles can be submitted to Chief Editor of Indian Cartographer for review at any time. All manuscripts should be submitted electronically to the given mail ID (editorinca.journal@gmail.com). Papers submitted for publication should address significant research problems and issues, and be attuned to the sensibilities of a diverse scholarly audience. For detailed instructions about article submission see Author Guidelines.

#### **Author Guidelines**

- 1. Manuscripts in prescribed format can be submitted through email only to the Chief Editor (editorinca.journal@gmail.com) any time.
- Manuscript should be submitted in both Word document (doc, docx) and Portable Document Format (pdf) along with a brief cover letter addressed to the Chief Editor, Indian Cartographer, INCA mentioning the followings.
  - a. Category of the manuscript (e.g. Research Paper, Research Article, Review Article etc.)
  - b. What is the study all about? (in brief)
  - c. How your study contributes to the aims and objectives of the journal?
  - d. Why do you think the journal should accept your paper for publication?
  - e. Please include a list of Names, email IDs (institutional email ID is preferred), designations, affiliations, field of expertise and contact details of 3 potential reviewers for your manuscript. (Please note that your manuscript may or may not be sent to these potential reviewers)
- 3. Manuscript should be typed in A4 page using font Times New Roman with 12 font size and 1.5 spaces along with 1" margin on all sides of the paper.
- 4. The paper may not be submitted else where for which a certificate to be given at the time of submission.
- 5. Equations and tables used in the paper should be editable.
- 6. Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc.
- 7. Please avoid foot notes.
- 8. Authors are advised to check their writing with Grammarly or any other similar free software to avoid grammatical errors.

#### **ARTICLE STRUCTURE**

The paper should be framed in the following order:

**Title page:** Submit a separate title page in Word to facilitate refereeing process. This should include the title of the paper; the authors' names; main professional/ academic affiliations; full postal and email addresses and email ID of corresponding author. Author names should be arranged according to their contributions. Authors may also include their ORCID id here. Please do not include this section with the main article.

**Abstract:** An abstract not exceeding 250 words including objectives, methodology, data sources and findings is required.

**Keywords:** Not more than six to seven key words including one for theme, one for topic, one for method and three others should be given.

**Introduction:** Conceptual background, statement of the problem, explanation of themes and objectives should be described in introduction.

The Study-Area: Location and selection criteria of the study area should be given.

**Materials and Methods:** A brief description of sample design, selection of sample, method of primary data collection and tools, types and methods of statistical analysis, software used, secondary data sources etc. must be included in this section.

**Limitations:** Author(s) will express his/her limitations in formulating the research paper/article.

**Results and Discussion:** This is main body of the paper in which author describes findings with the help of analyzed data, figures and tables; interprets the significance of findings, explains new understanding of problem and explains how results explain the problems. The subject-matter of the article is to be divided into several focused sub-topics with short headings. To a maximum of two levels of headings may be used. First-level headings should be bold on a separate line. Second-level headings should be bold italic on a separate line. Result should be clear and concise.

**Conclusion:** The main conclusion of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section. Author should explain how the findings support/differ from other similar studies and why. Synthesis of arguments that address the research problem highlighting opportunities of future research must also be included in conclusion.

#### **Patents**

This section is not mandatory, but may be added if there are patents resulting from the work reported in this manuscript.

**Author Contributions:** For research articles with several authors, a short paragraph specifying their individual contributions must be provided. The following statements should be used "Conceptualization, X.X. and Y.Y.; methodology, X.X.; software, X.X.; validation, X.X., Y.Y. and Z.Z.; formal analysis, X.X.; investigation, X.X.; resources, X.X.; data curation, X.X.; writing—original draft preparation, X.X.; writing—review and editing, X.X.; visualization, X.X.; supervision, X.X.; project administration, X.X.; funding acquisition, Y.Y. All authors have read and agreed to the published version of the manuscript."

**Funding:** Please add: "This research received no external funding" or "This research was funded by NAME OF FUNDER, grant number XXX" and "The APC was funded by XXX". Check carefully that the details given are accurate and use the standard spelling of funding agency names.

**Acknowledgments:** Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

Conflicts of Interest: Declare conflicts of interest or state "The authors declare no conflict of interest." Authors must identify and declare any personal circumstances or interest that may be perceived as inappropriately influencing the representation or interpretation of reported research results. Any role of the funders in the design of the study; in the collection, analyses or interpretation of data; in the writing of the manuscript, or in the decision to publish the results must be declared in this section. If there is no role, please state "The funders had no role in the design of the study; in the collection, analyses, or interpretation of data; in the writing of the manuscript, or in the decision to publish the results".

# Referencing style:

#### Citation in Text

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications

are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list, they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

#### Web Rreferences

As a minimum, the full URL should be given and the date when the reference was last accessed. Any further information, if known (DOI, author names, dates, reference to a source publication, etc.), should also be given. Web references can be listed separately (e.g., after the reference list) under a different heading if desired, or can be included in the reference list.

#### Data References

This journal encourages you to cite underlying or relevant datasets in your manuscript by citing them in your text and including a data reference in your Reference List. Data references should include the following elements: author name(s), dataset title, data repository, version (where available), year, and global persistent identifier. Add [dataset] immediately before the reference so we can properly identify it as a data reference. The [dataset] identifier will not appear in your published article.

# References in a Special Issue

Please ensure that the words 'this issue' are added to any references in the list (and any citations in the text) to other articles in the same Special Issue.

# Reference Management Software

The journal strongly encourages authors to use reference management software such as Mendeley. The main benefit of using citation plug-ins is that authors only need to select the appropriate journal template or reference style when preparing their article, after which citations, references and bibliographies will be automatically formatted in the preferred style.

#### Reference Style

**Text:** Citations in the text should follow the referencing style used by the American Psychological Association. You are referred to the Publication Manual of the American Psychological Association, Seventh Edition, ISBN 978-1-4338-3215-4, copies of which may be <u>ordered online</u>. **List:** references should be arranged first alphabetically and then further sorted chronologically if necessary. More than one reference from the same author(s) in the same year must be identified by the letters 'a', 'b', 'c', etc., placed after the year of publication.

#### Examples:

#### Reference to a Journal Publication:

Van der Geer, J., Hanraads, J. A. J., & Lupton, R. A. (2010). The art of writing a scientific article. *Journal of Scientific Communications*, 163, 51–59. https://doi.org/10.1016/j.sc.2010.00372.

# Reference to a Journal Publication with an Article Number:

Van der Geer, J., Hanraads, J. A. J., & Lupton, R. A. (2018). The art of writing a scientific article. *Heliyon*, *19*, Article00205. https://doi.org/10.1016/j.heliyon.2018.e00205.

#### Reference to a Book:

Strunk, W., Jr., & White, E. B. (2000). The elements of style (4th ed.). Longman (Chapter 4).

# Reference to a Chapter in an Edited book:

Mettam, G. R., & Adams, L. B. (2009). How to prepare an electronic version of your article. In B. S. Jones, & R. Z. Smith (Eds.), *Introduction to the electronic age* (pp. 281–304). E-Publishing Inc.

#### Reference to a Website:

Powertech Systems. (2015). *Lithium-ion vs lead-acid cost analysis*. Retrieved from http://www.powertech systems. eu/home/tech-corner/lithium-ion-vs-lead-acid-cost-analysis/.

Accessed January 6, 2016

#### Reference to a Dataset:

[dataset] Oguro, M., Imahiro, S., Saito, S., & Nakashizuka, T. (2015). *Mortality data for Japanese oak wilt disease and surrounding forest compositions*. Mendeley Data, v1. https://doi.org/10.17632/xwj98nb39r.1 **Reference to a Conference Paper or Poster Presentation:** 

Engle, E.K., Cash, T.F., & Jarry, J.L. (2009, November). *The Body Image Behaviours Inventory-3: Development and validation of the Body Image Compulsive Actions and Body Image Avoidance Scales*. Poster session presentation at the meeting of the Association for Behavioural and Cognitive Therapies, New York, NY.

#### **SUPPLEMENTARY MATERIAL**

Detailed and large tables can be submitted as supplementary material. If tables with huge data are not submitted as supplementary material and are found suitable for online publishing only, the discretion to use these as supplementary material lies with the journal. The authors will be informed about this during the processing of their manuscripts. Authors should also preserve their original data and results for at least one year. They might be asked to produce the same to the Chief Editor if necessary.

Any details and queries regarding supplementary material should be addressed to the corresponding author of the paper. The published material cannot be reproduced without permission from the author and the Chief Editor of the Journal.

#### DECLARATIONS TO BE MADE REGARDING ETHICAL ISSUES

It is essential for the study to have been carried out in accordance with the ethical standards of the country/countries where the research described in the article has been conducted. A declaration to that effect must accompany the manuscript.

#### **LETTERING**

- 1. All type should be from common type families (examples: Times New Roman, etc.). If an unique type font is critical to the theme of the map, such as helping to engender the feelings of an historical era, then a copy of the postscript font should be included with the final figure files, and its presence noted.
- 2. Type must be sufficiently large to be easily read at final print size; no type smaller than 6 point should be used.
- 3. Appropriate cartographic lettering placement should be observed.
- 4. Type placed on screen tints or area patterns must be clearly readable. White type can be used over dark screen tints, and area patterns can be lightened to prevent interference with type.
- 5. Generally, map titles will be incorporated into the figure caption and will appear outside and below the figure. Figure captions should NOT be a part of the graphic. All captions will be typeset, and should be submitted on a separate page. Figure numbers should be a part of th figure's file name.
- 6. The International System of Units (metric) should be used; other units may be noted in parentheses.

# SCREEN TINTS AND AREA PATTERNS

- 1. Screen tints and area pattern fills should reflect the importance of graphic elements through visual hierarchy (i.e., more important elements appear more prominently than less important elements).
- 2. To ensure distinction between screen tints (particularly on choropleth maps), the following percentages are suggested:

2 tints: 30%, 50% 3 tints: 10%, 25%, 50% 4 tints: 10%, 20%, 50%, 80%

5 tints: 10%, 20%, 40%, 60%, 100% 6 tints: 10%, 15%, 25%, 40%, 60%, 100%

Typically, graphics should not have more than 6 tints.

#### **TABLES AND FIGURES**

Figure, line drawings, maps should be clear and readable in 300 dpi preferably in Enhanced Windows Metafile (EWM), or JPEG, TIF file formats. All scale lines should be labeled in km, and a North arrow should be drawn in all maps if latitudes and longitudes are not given; otherwise no North arrow is required. Figures should be numbered along with captions, for example, "Figure 1: Location and extent of the study area". Figure number and source both should be below the figure.

Tables must be numbered along with captions, for example, "Table 1: Changing area of Santiniketan and its Environs (1951-2020)" and placed above the table. Source should be written below the table. Tables should present new information rather than duplicating what is in the text.

# **USING SYMBOLS AND ABBREVIATIONS:**

All symbols and abbreviations must be defined, and used only when necessary. Superscripts, subscripts and ambiguous characters should be clearly indicated. Units of measure should be metric.

#### **USING THIRD-PARTY MATERIAL:**

You must obtain the necessary permission to reuse third-party material in your article. The use of short extracts of text and some other types of material is usually permitted, on a limited basis, for the purposes of criticism and review without securing formal permission. If you wish to include any material in your paper for which you do not hold copyright, and which is not covered by this informal agreement, you will need to obtain written permission from the copyright owner prior to submission. Self-Declaration, Permission, Acknowledgement must be attached at the time of submission.

#### **Contact us Section**

- 1. Contact Details: Mailing Address, Email ID, Contact Numbers
- 2. Advertise with us
- 3. FAQ
- 4. Feedback Form

#### **Details**

Document Type : Journal / Magazine / Newspaper

All Authors / Contributors : Indian National Cartographic Association (INCA)

 ISSN
 : 0972-8392

 OCLC Number
 : 637645018

Other Titles : Journal of the Indian National Cartographic Association (INCA)