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कमोजोर अमित रस्तोगी (से.नि.)

प्रमुख
एन.जी. लक्ष्मीनारायण

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डॉ. अंकिता मिश्रा

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खेमचंद

अधीक्षक
वी. वी. मुरालीकृष्णन

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अरविन्द कौशिक
दीपक तुली
प्रवीन राजौरा
जयसिंह



नेशनल रिसर्च डिवेलपमेंट
कारपोरेशन

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• आविष्कार नेशनल रिसर्च डिवेलपमेंट कारपोरेशन (एनआरडीसी) द्वारा प्रकाशित विज्ञान और प्रौद्योगिकी की लोकप्रिय विज्ञान मासिक पत्रिका है। • आविष्कार में किसी लेख के प्रकाशन हेतु सयन के संदर्भ में संपादक का निर्णय अंतिम होगा। प्रकाशित लेखों और लेखकों द्वारा भेजे गए चित्रों की मौलिकता के संबंध में लेखक स्वयं उत्तरदायी होंगे। • आविष्कार में प्रकाशित सामग्री का किसी भी रूप में उपयोग करने से पूर्व संपादक की अनुमति लेना आवश्यक है। • आविष्कार में प्रकाशित किसी यात्रिक, वैद्युत, प्रौद्योगिक, आदि सुझाव के काम ले करने की स्थिति में पत्रिका/एनआरडीसी उससे लिए उत्तरदायी नहीं होगी। • आविष्कार में प्रकाशित विज्ञापनों में किए गए दावों के लिए पत्रिका और एनआरडीसी उत्तरदायी नहीं होगी।
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समानी च आकृतिः समाना हृदयानि वः।
समानमस्तु वो मनो यथा वः सुसहासति॥ ऋग्वेद

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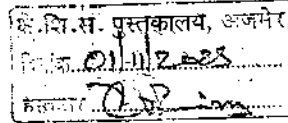
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American Journal of Physics Vol.90, No. 11 November, 2022

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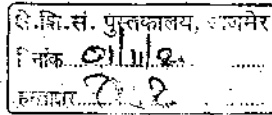
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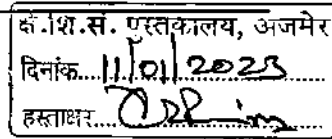
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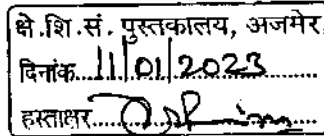
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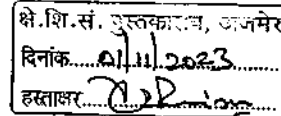
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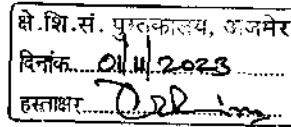
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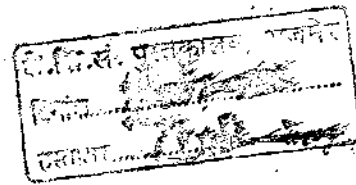
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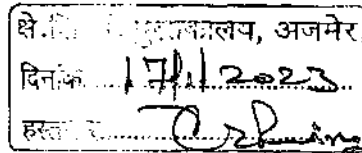
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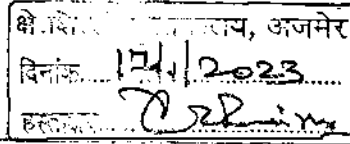
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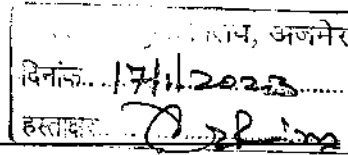
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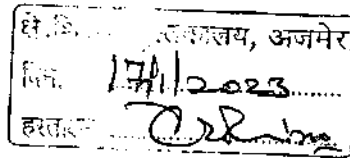
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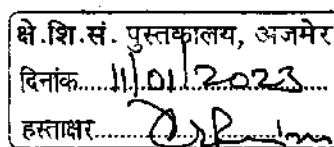
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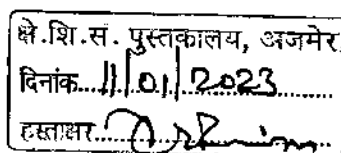
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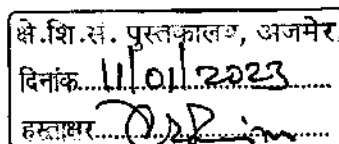
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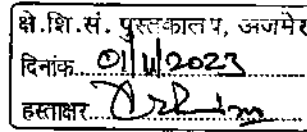
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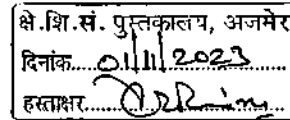
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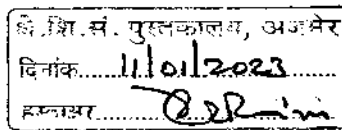
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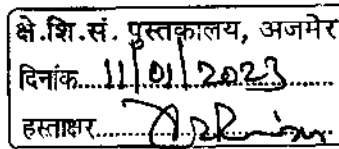
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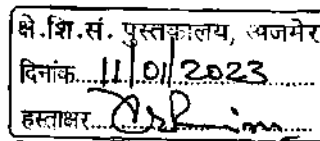
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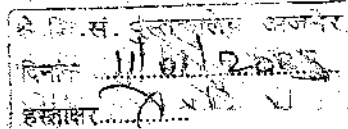
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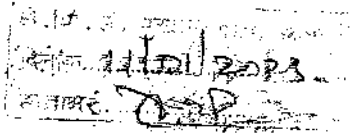
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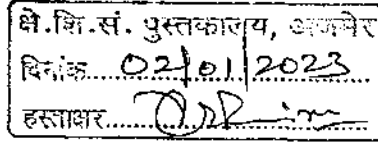
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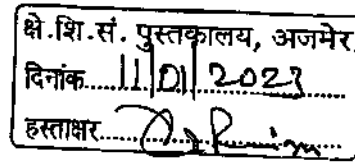
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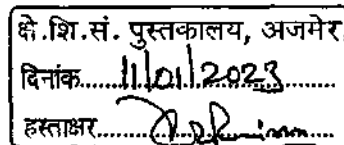
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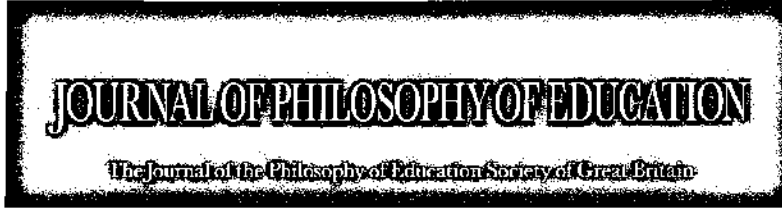
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Guest Editors: Michael Hand and Stephen G. Parker

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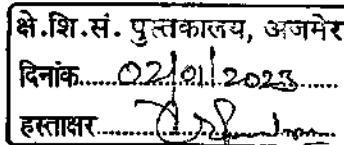
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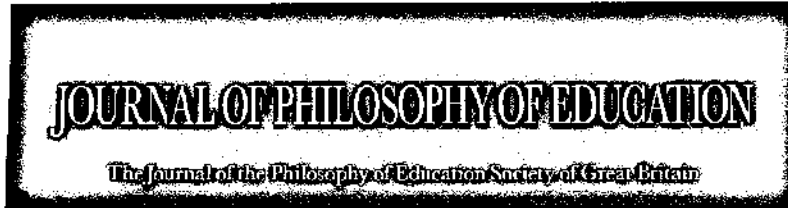


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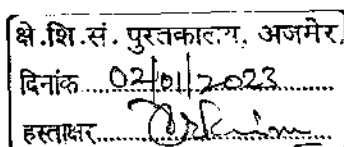
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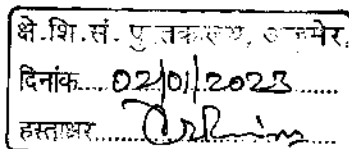
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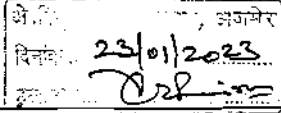
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साहित्य, संस्कृति और कला का समग्र मासिक



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आवरण सहित तपस्त चित्र प्रभु जोशी

अतिथि सम्पादक : ओमा शर्मा

संपादन-परामर्श सुभाष चंत इषीकेश सुलभ सत्यनारायण योगेन्द्र आहूवा	कानूनी सलाहकार मनीष पाठक ● प्रचार/प्रसार सुदित ● संपादकीय कार्यालय एल-57 बी, दिलशाद गार्डन, दिल्ली-110095 फोन : 7903401407, 7701938625 E-mail : kathadeshnew@gmail.com	शाखा कार्यालय श्रीमती (श्री.) स्मृति सिंह सावित्री सदन, कर्नर मार्ग, बनी पार्क, जयपुर (राजस्थान) ● इस अंक का मूल्य 100/- मूल्य वार्षिक (व्यक्तिगत) : 500/- रजिस्टर्ड डाक में : 700/- मूल्य वार्षिक (संस्था तथा लाइब्रेरी) : 700/- रजिस्टर्ड डाक में : 900/- आजीवन सदस्यता : 10000/- रजिस्टर्ड डाक में : 15000/- वार्षिक (विदेश) : 60 डालर	ऑनलाइन भुगतान के लिए : Name of AC Holder : Kathadesh A/C No. : 084002000001694 Bank : Indian Overseas Branch : Dilshad Garden IFSC : IOBA0002793 ● सारे भुगतान बैंक पर बैंक ड्राफ्ट कथादेश के नाम से किये जायें. ● मुद्रक, प्रकाशक, संपादक हरिनारायण, एल-57 B, दिलशाद गार्डन, दिल्ली-110095 द्वारा स्यालिक आफ़सेट, एम-120, नवीन शाहदरा, दिल्ली-110032 से मुद्रित.
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कथादेश वर्ष 40 अंक 11 जनवरी, 2023

साहित्य, संस्कृति और कला का समग्र मासिक

के.शि.सी. अजमेर
दिनांक 23/01/2023
हस्ताक्षर

कथादेश

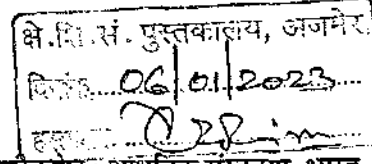
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		फोटो : आलोक पुतुला
		अतिथि सम्पादक : आनंद हर्षुल

सम्पादन-परामर्श तुषार पंत हृषीकेश सुलभ सत्यनारायण योगेन्द्र आहुजा	कानूनी सलाहकार मनीष पाटक ● प्रचार/प्रसार मुदित ●	शाखा कार्यालय श्रीमती (डॉ.) स्मृति सिंह सावित्री सदन, कबीर मार्ग, बनी पार्क, जयपुर (राजस्थान) ●	ऑनलाइन भुगतान के लिए : Name of AC Holder : Kathadesh A/C No. : 084002000001694 Bnk : Indian Overseas Branch : Dilsbad Garden IFSC : IOBA0002793 ●
संपादन-सहयोग आनंद हर्षुल शम्पा शाह रश्मि रावत	सम्पादकीय कार्यालय एल-57 बी, दिलशाद गार्डन, दिल्ली-110095 मो. : 7503401407, 7701938525 E-mail : kathadeshnew@gmail.com	इस अंक का मूल्य 70/- मूल्य वार्षिक (व्यक्तिगत) : 500/- रजिस्टर्ड डाक से : 700/- मूल्य वार्षिक (संस्था तथा लाइब्रेरी) : 700/- रजिस्टर्ड डाक से : 900/- आजीवन सदस्यता : 10000/- रजिस्टर्ड डाक से : 15000/- वार्षिक (विदेश) : 60 डॉलर	सारे भुगतान बैंक या बैंक ड्राफ्ट कथादेश के नाम से किये जायें. ●
सम्पादक हरिनारायण	कथादेश से सम्बन्धित सभी विवाद केवल दिल्ली न्यायालय के अधीन ही होंगे.		मुद्रक, प्रकाशक, सम्पादक हरिनारायण, एल-57 B, दिलशाद गार्डन, दिल्ली-110095 द्वारा स्वास्तिक आफसेट, एम-120, नवीन शाहदरा, दिल्ली-110032 से मुद्रित.

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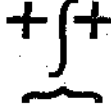
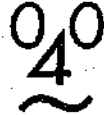


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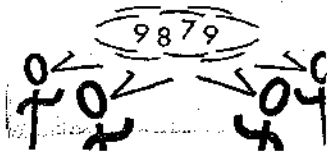
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Social and Emotional Learning and the Standards for Mathematical Practice have a mutually beneficial relationship and develop mathematically proficient and confident students.
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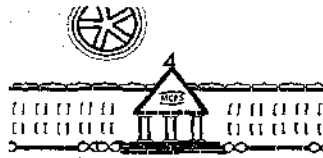


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781 Supporting SEL Competencies with Number Talks

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By Candace Joswick and Crystal N. Taylor

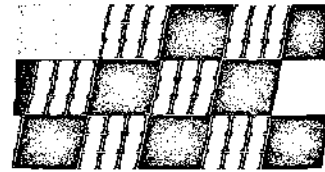


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792 Infusing SEL into the Elementary Mathematics Experience

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801 Using Fermi Questions to Foster Community

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By Kathryn Lavin Brave and Jillian Miller

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808 Keeping Your Finger on the Pulse of SEL

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By José Martínez Hinestroza and Vanessa Abreu

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By Sara Gartland, Shellee Wong, and Laurie Silverstein

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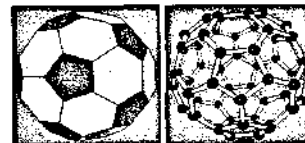
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Mathematical Connections: Many Faces of the Truncated Icosahedron



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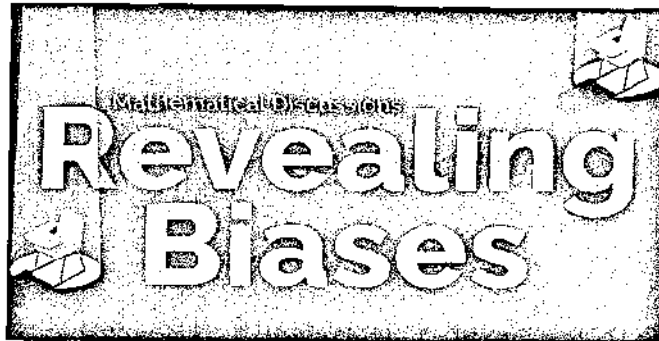
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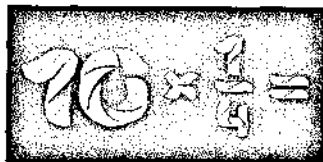


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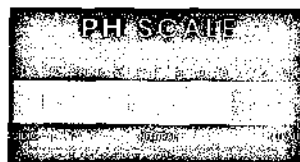


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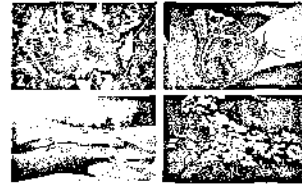
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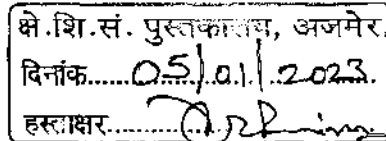
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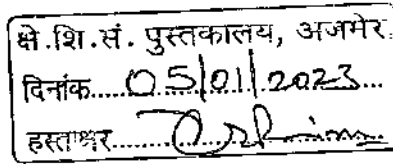


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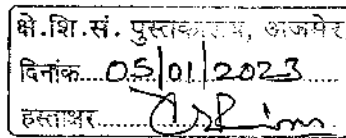


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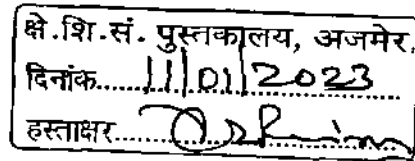
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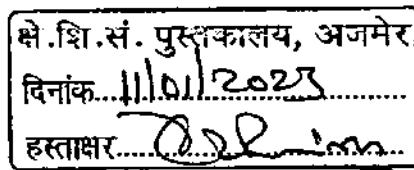
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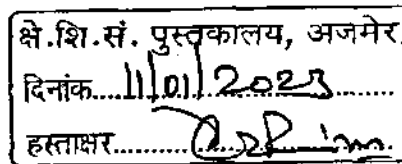
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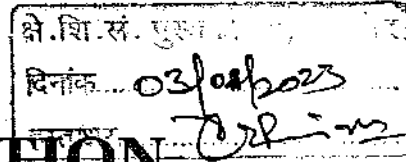
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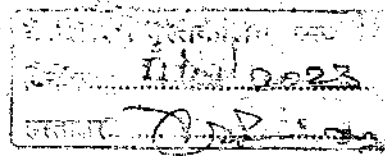
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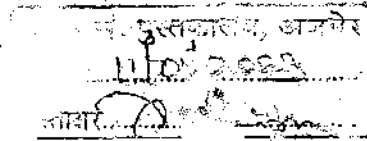
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#Let'sBeatCoronaTogether

23/01/2023
**One Nation One Subscription (ONOS):
Perspectives and Prospective**

J N Gautam* and Rajesh Kumar Pandey**

Science, Technology, and Innovation Policy-2020 (STIP 2020), in its draft report to the Government of India, recognized the essence of universal and equitable access to academic and scholarly content. A resurgence in research and innovation can potentially ensure a self-reliant India (*Atmanirbhar Bharat*), and it requires, besides others, access to quality scholarly journals for the academic, research, and scientific community across the country mandatorily. Having realised this essence, STIP 2020 has envisioned the One Nation One Subscription (ONOS) plan. The draft report states, "The Government of India will negotiate with journal publishers for a "one nation, one subscription" policy whereby, in return for one centrally negotiated payment, all individuals in India will have access to journal articles. This will replace individual, institutional journal subscriptions."

Based on the recommendations of the Principal Scientific Adviser to the Government of India, the Department of Higher Education under the Ministry of Education has notified a circular on 15th November 2022 concerning the implementation of ONOS at all the centrally funded technical institutions, research institutions, and institutions of higher learning (Govt. of India Department of Higher Education, 2022). The policy envisages signing a single national license with all the prominent publishers across the globe to ensure access to all national and international journals to all the CFTIs, research institutions, universities, and colleges, incorporating every citizen of the country in a phased manner. Under 1st phase of the ONOS that would be in force from 1st April 2023, access to the contents of seventy prominent publishers of the world, given in the annexure to the said order, would be provided. It was officially notified on dated August 3, 2022, by the Principal Scientific Adviser to the Government of India that a Planning and Execution Committee (PEC) consisting of seventeen members would identify and finalise the e-resources from the Sciences, Technology, Engineering, Medical Sciences, Social Sciences, Arts & Humanities disciplines, and other specific demand-based resources. A Cost Negotiation Committee (CNC) would finalise the rate of the subscriptions for nationwide access to scholarly content.

ONOS is a very bold initiative, perhaps, the first of its kind, especially at such a large scale. It is unprecedented and highly commendable to make India an actual knowledge economy, ensuring access to academic content to all enlightened citizens, be they

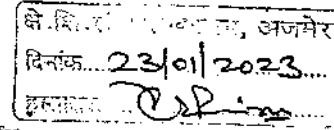
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