

Research Article

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## E-Shodh Sindhu: Consortium for Higher Education Electronic Resources for Scholarly Content: An overview

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### Abstract

#### Keywords

e Shodh Sindhu,  
e-resources,  
Consortium,  
Higher education,  
e-journal,  
UGC

The present study was carried out at e-Shodh Sindhu consortium for higher educational institution such as University, CFTIs, and Technical Colleges to access the e resources for academic purpose. Now in the age of information explosion, e resources play a vital role and only it is the solution in higher education for distribution of skills in the present situation. e-Shodh Sindhu electronic resources consortium discussion about this study regarding its services, available e resources like e journal, e books, e database and e resources for higher education (University, Technical colleges, CFTIs-). It also focuses that who can access these resources and how, In present time total 358 Higher educational institutions are registered with e-Shodh Sindhu from, all the state and UT of India such as only 221 University, 66 CFTIs and 72 Technical colleges which can access electronic resources subscribed by the e Shodh Sindhu consortium for higher education.

### Introduction

The E-Shodh Sindhu fully is funded and based on the recommendation of an Expert Committee, the MHRD has formed e-Shodh Sindhu merging three consortia initiatives, namely UGC-INFONET Digital Library Consortium, NLIST and INDEST-AICTE Consortium and extend access to selected e resources to its member institutions including centrally-funded technical institutions, universities and colleges that are covered under 12(B) and 2(f) Sections of the UGC Act .This project entitled “e Shodh Sindhu: Consortium for Higher education E resources for scholarly content” will continue to provide current as well as archival access to more than 15,000 core and peer-reviewed journals and a number of bibliographic, citation and factual databases in different disciplines from a large number of publishers and aggregators to its member institutions including centrally-funded Technical institutions, Universities and colleges that are covered under 12(B) and 2(f) Sections of the UGC Act.

The e Shodh Sindhu project provides access to e resources to only for higher education students, Researcher and Faculties from centrally-funded Technical institutions, Universities and colleges. The authorized users from colleges can now access e-resources and download articles required by them directly from the publisher's website once they are duly authenticated as authorized users through servers deployed at the INFLIBNET Centre. Now this project provides the lot of information for higher academic purpose.

### Membership

In India all Colleges, centrally-funded technical institutions, Universities which covered under 12(B) and 2(f) Sections of the UGC Act, The e-Shodh Sindhu will continue to provide current as well as archival access to more than 15,000 core and peer-reviewed journals and a

number of bibliographic, citation and factual databases in different disciplines from a large number of publishers and aggregators to its member institutions. It can access to electronic resources subscribed by the E Shodh Sindhu consortium as well as few selected e-resources that were found most appropriate for institution including e-journals and e-books for Higher Education in India. Now the e Shodh Sindhu joining members are centrally funded Technical Institutions are 66, 221 Universities members, 72 to technical institution and more than 45000 colleges are members in this project. These resources included more than 15000+ e-journals and 135000 + e books, 42 resources, 16 databases. All higher educational institutions are requested to register themselves online. Faculty, Staff, students and researchers from eligible Colleges, CFTIs, University and Technical institution covered under Section 12B/2F of UGC Act, Deemed Universities fully or partially funded by UGC. Through the AICTE, Government Engineering Colleges and universities having engineering departments/faculty are also provided access of Engineering resources are eligible to access e-resources through the E Shodh Sindhu project. Higher educational institutions, desirous of accessing e-resources, are required to register themselves with the e-Shodh Sindhu. Visit the e- Shodh Sindhu Website and click on Register on the navigation bar. Fill-in the Registration Form online and submit it. Registration form may also download and submit it by post. Ensure to provide a list of authorized users including faculty, staff, researchers and students. All beneficiary Higher Educational institution (including those covered under Section 2F/12B of UGC Act) would be required to pay an annual membership fee of Rs. 5000 (Five thousand only).

### **Scope of the study**

The E- Shodh Sindhu covers all the disciplines viz. Pure Sciences, Social Sciences and Humanities, Engineering, Agriculture, Medical science, Law, Library Science including Linguistic and Languages

etc. However e-resources are based on the higher education and Research field are more useful to get their beneficiary in future.

### **Aims and Objectives**

The main objective of the e-Shodh Sindhu: Consortia for Higher Education E-Resources is to provide access to qualitative electronic resources including full-text, serials/ Monograph, bibliographic and factual databases to academic institutions at a lower rates of subscription.

The major aims and objectives of the e-Shodh Sindhu are as follows:

- To be familiar with e-Shodh Sindhu: Consortia for Higher Education
- To know the members of e Shodh Sindhu
- To identified the state wise registered institution.
- To identify the available number of e-journals
- To identify the available number of e-books
- To know the available e-resources in e-Shodh Sindhu: Consortia for Higher Education

### **1. Electronic Resources in E-Shodh Sindhu: Consortia**

E-resources promote to use of all higher educational institution in India and Provide access to scholarly content available in open access through subject portals and subject gateways; UGC-INFONET consortium subscribes to the following E-resources for the colleges, Universities and CFTIs,. Numbers of title of electronic resources are given within circular bracket and their respective website is given in second column through which title can be accessed. All electronic resources subscribed under e-Shodh Sindhu are available from the publisher's web site are given below:

Table: 1

<b>E-Journals (Full-Text)</b>	
ACM Digital Library(44 titles)	<a href="http://dl.acm.org">http://dl.acm.org</a>
Annual Reviews (58 titles)	<a href="http://arjournals.annualreviews.org">http://arjournals.annualreviews.org</a>
ASCE Journals Online (36 titles)	<a href="http://ascelibrary.org">http://ascelibrary.org</a>
ASME Journals Online(29 titles)	<a href="http://asmedigitalcollection.asme.org">http://asmedigitalcollection.asme.org</a>
ASTM standards+ Digital Library(1500+ titles)	<a href="http://www.astm.org/DIGITAL_LIBRARY/index.html">http://www.astm.org/DIGITAL_LIBRARY/index.html</a>
Economic and Political weekly(1 titles)	<a href="http://epw.in">http://epw.in</a>
Emerald Publishing(432 titles)	<a href="http://www.emeraldinsight.com">http://www.emeraldinsight.com</a>
IEEE/IET Electronic Library Online(299 titles)	<a href="http://ieeexplore.ieee.org">http://ieeexplore.ieee.org</a>
Institute of Physics(46 titles)	<a href="http://iopscience.iop.org/journals">http://iopscience.iop.org/journals</a>
JSTOR(2585 titles)	<a href="http://www.jstor.org">http://www.jstor.org</a>
Manupatra(15 titles)	<a href="http://www.manupatra.com">http://www.manupatra.com</a>
Nature(1 titles)	<a href="http://www.nature.com">http://www.nature.com</a>
Optical Society of America(21 titles)	<a href="http://www.opticsinfobase.org">http://www.opticsinfobase.org</a>
Oxford University Press(262 titles)	<a href="http://www.oxfordjournals.org">http://www.oxfordjournals.org</a>
Portland Press(10 titles)	<a href="http://www.portlandpress.com/pp/default.htm">http://www.portlandpress.com/pp/default.htm</a>
Project Euclid (39 titles)	<a href="http://projecteuclid.org">http://projecteuclid.org</a>
Project Muse (492 titles)	<a href="http://muse.jhu.edu">http://muse.jhu.edu</a>
Proquest ABI/ Inform Complete	<a href="http://search.proquest.com">http://search.proquest.com</a>
SIAM(14 titles)	<a href="http://epubs.siam.org">http://epubs.siam.org</a>
Westlaw India(9 titles)	<a href="http://www.westlawindia.com">http://www.westlawindia.com</a>

## 2. Database access through the e resources

E-Shodh Sindhu e resources consortium subscribes to the following E-resources for the higher educational institution. Numbers of title of electronic resources

Database are given within circular bracket and their respective website is given in second column through which title can be accessed. All electronic databases subscribed under E Shodh Sindhu are available from the publisher's web site are given below:

Table: 2

<b>E resources-Database titles</b>	<b>website</b>
Capitaline	<a href="http://www.capitaline.com">http://www.capitaline.com</a>
CRIS INFAC Industrial Information (CRISIL)	<a href="http://www.crisil.com">http://www.crisil.com</a>
Euro monitor-Passport	<a href="http://go.euromonitor.com/PassportHome.html">http://go.euromonitor.com/PassportHome.html</a>
INSIGHT	<a href="https://insight.dionglobal.in">https://insight.dionglobal.in</a>
Institute for Studies in Industrial Development (ISID)	<a href="http://isid.org.in">http://isid.org.in</a>
JGate Plus (JCCC)	<a href="http://jgateplus.com/search">http://jgateplus.com/search</a>
MathSciNet	<a href="http://www.ams.org/mathscinet">http://www.ams.org/mathscinet</a>
SciFinder Scholar	<a href="http://www.cas.org/products/scifinder">http://www.cas.org/products/scifinder</a>
Web of Science	<a href="http://www.webofknowledge.com">http://www.webofknowledge.com</a>

3. Total number of e-journal in Alphabets

Table: 3

e-Journals Name Starting Letter	No. of Journals	e-journals Name Starting Letter	No. of Journals	e-Journals Name Starting Letter	No. of Journals
A	1087	J	1683	S	716
B	49	K	35	T	1031
C	774	L	231	U	52
D	205	M	567	V	90
E	550	N	293	W	181
F	262	O	136	X	4
G	186	P	710	Y	20
H	241	Q	63	Z	55
I	833	R	354		

The above table shows that there were 10408 Journals have been accessed by e resources consortium into E-Shodh Sindhu project. The Journals, whose starting letter 'J' have accessed more (1683) and the journals which starting letter X have accessed less (4). The second highest starting letter is 'A' there were 1087 Journals have access under this category. The table further shows that the Journals whose starting letter B,O,Q,U,V,X,Y and Z have access less than 504 and the names of Journals starting letter A, C, I, J,P, S and

T have accessed more than 6834 theses into e Shodh Sindhu.

4. Collection wise e resources journal

This project collection various publisher to access e resources through the consortium promote to use of all higher educational institution in India and Provide access to scholarly content available in open access through subject portals and subject gateways;

Table: 4

Collection Name	Number of Serials/monographs	Collection Name	Number of Serials/monographs
ACM Digital Library	1143	JSTOR	2585
American Chemical Society	55	Nature	1
American Institute of Physics	19	Oxford University Press	262
American Institute of Physics Archive	8	Portland Press	10
American physical Society	13	Project Euclid	39
Annual Review	43	Project Muse	492
ASCE Journals Online	36	Royal Society of Chemistry	29
ASME Journals Online	29	Science Direct	1036
Cambridge University Press	224	Science Direct archive (Basic Sc collection)	260
Economic & Political Weekly	1	SIAM	14
Emerald CFTI Collection	299	Springer Link	1438
Emerald Univ Collection	133	Taylor and Francis	1079
Institute of Physics	46	Wiley Blackwell Publishing	915

Above table: 4 indicate that the highest 2585 collection of serials/monograph from 'JSTOR' and second highest is 'ACM Digital Library' 1143 collection and lowest is both 'Economic and Political Weekly and Nature' have 1 number of collection under this project.

### 5. Subject wise E- journal

The following table shows the different subject coverage and access to e-resources under e Shodh

Sindhu consortium constitutes several Subject wise e journals, such as, Pure Sciences, Social Sciences and Humanities including Linguistic and Languages. However e-resources in engineering, agriculture and medicine are covered under this programme. The study reveal that there is different subject has various publisher and number of journal they access under this E Shodh Sindhu in table no.5.

**Table: 5**

Subject	No. of Publisher	No of E-journal	Subject	No. of Publisher	No of E journal
<a href="#">Accounting and Finance</a>	5	21	<a href="#">Geology</a>	5	26
<a href="#">Agricultural Science</a>	5	26	<a href="#">Gerontology</a>	4	7
<a href="#">Anthropology</a>	31	98	<a href="#">GIS/Remote Sensing</a>	1	1
<a href="#">Applied Mathematics</a>	3	3	<a href="#">Health Care</a>	10	21
<a href="#">Aquatic Sciences</a>	3	4	<a href="#">History</a>	117	276
<a href="#">Archeology</a>	26	49	<a href="#">Humanities</a>	12	102
<a href="#">Architecture</a>	9	15	<a href="#">Information Science</a>	0	0
<a href="#">Area Studies</a>	34	68	<a href="#">Language and Linguistics</a>	25	67
<a href="#">Area Studies-Africa</a>	8	14	<a href="#">Law</a>	37	191
<a href="#">Area Studies-Asia</a>	11	21	<a href="#">Library and Information Science</a>	16	45
<a href="#">Area Studies-Europe</a>	1	8	<a href="#">Literature</a>	45	106
<a href="#">Area Studies-Latin America</a>	5	9	<a href="#">Manufacturing Engineering</a>	2	15
<a href="#">Area Studies-Middle East</a>	4	10	<a href="#">Marine Science</a>	1	9
<a href="#">Area Studies-Russia &amp; Europe</a>	1	4	<a href="#">Mass Communication</a>	1	6
<a href="#">Arts</a>	30	56	<a href="#">Materials Science</a>	2	20
<a href="#">Astronomy and Astrophysics</a>	5	22	<a href="#">Mathematical Physics</a>	0	0
<a href="#">Biochemistry</a>	3	3	<a href="#">Mathematics</a>	40	302
<a href="#">Biological Science</a>	46	150	<a href="#">Mechanical Engineering</a>	4	24
<a href="#">Biomedical Engineering</a>	1	3	<a href="#">Medical Science</a>	25	299
<a href="#">Biotechnology</a>	1	2	<a href="#">Medical Sociology</a>	1	1
<a href="#">Botany(Plant Sciences)</a>	11	62	<a href="#">Meteorology</a>	1	4
<a href="#">Business and Management</a>	21	112	<a href="#">Microbiology</a>	3	18
<a href="#">Chemical Engineering</a>	5	12	<a href="#">Mining Engineering</a>	2	3
<a href="#">Chemistry</a>	10	279	<a href="#">Museum and Archives</a>	4	4
<a href="#">Civil Engineering</a>	3	14	<a href="#">Music</a>	49	110
<a href="#">Communication</a>	3	28	<a href="#">Nanotechnology</a>	0	0
<a href="#">Computer Science</a>	11	173	<a href="#">Neuropsychology</a>	2	3
<a href="#">Control and Systems Engineering</a>	3	7	<a href="#">Nursing</a>	1	1

<a href="#">Criminology</a>	2	7	<a href="#">Paleobiology</a>	0	0
<a href="#">Cultural Studies</a>	2	24	<a href="#">Performing Arts</a>	4	19
<a href="#">Defence Studies</a>	1	5	<a href="#">Pharmacy</a>	4	9
<a href="#">Demography and Population Studies</a>	16	31	<a href="#">Philosophy</a>	42	133
<a href="#">Design Engineering</a>	1	2	<a href="#">Physics</a>	19	256
<a href="#">Developmental Psychology</a>	2	3	<a href="#">Political Science</a>	56	220
<a href="#">Ecology</a>	3	29	<a href="#">Psychology</a>	23	135
<a href="#">Economics</a>	25	173	<a href="#">Public Administration</a>	12	26
<a href="#">Education</a>	45	242	<a href="#">Religion and Theology</a>	16	59
<a href="#">Electrical and Electronic Engineering</a>	3	7	<a href="#">Social Science</a>	27	108
<a href="#">Energy and Fuels</a>	3	8	<a href="#">Sociology</a>	44	117
<a href="#">Engineering and Technology</a>	7	31	<a href="#">Sports and Games</a>	1	1
<a href="#">Environmental Science</a>	13	50	<a href="#">Statistics and Data</a>	11	22
<a href="#">Ergonomics</a>	1	2	<a href="#">Statistics and Probability</a>	13	29
<a href="#">Fish and Fisheries</a>	3	11	<a href="#">Transport Engineering</a>	3	4
<a href="#">Food Science</a>	8	27	<a href="#">Travel and Tourism</a>	3	18
<a href="#">Forest and Forestry</a>	4	11	<a href="#">Veterinary Science</a>	7	29
<a href="#">General Science</a>	13	29	<a href="#">Womens Studies</a>	11	20
<a href="#">Geography</a>	22	132	<a href="#">Zoology</a>	6	39

The above table shows that majority of libraries cover multidisciplinary subject, this project cover 94 subject for numbers of publisher and numbers of journal access, the above table indicate that the Mathematics Subject highest numbers access 40 publishers has 302 journals, 25 publisher has 299 journal access the

Medical science, followed by Physic is 19 publishers 256 journals and the Library Science has 16 publishers has 45 journals subscribed and the subject of Nanotechnology, Mathematical Physic has zero publisher and Journal.

## 6. Publisher wish access the e resources

Table: 6

<b>Publisher</b>	<b>No. of journals</b>	<b>publisher</b>	<b>No. of journal</b>
ACM Digital Library	1143	JSTOR	2585
Annual Review	43	Nature	1
ASCE Journals Online	36	Oxford University Press	262
ASME Journals Online	29	Portland Press	10
Economic & Political Weekly	1	Project Muse	492
Emerald Publishing	432	SIAM	14
Institute of Physics	46		

The table no 6 exposes that 'JSTOR' has contributed more publisher to access through resources and other publishers. This publisher through has subscribed 2585 e journal into this project and ACM Digital Library has listed second in the table ,through access of 1143 journal into e Shodh Sindhu. The table further shows that project Muse with 492 journals into e resources and both Economic and Political weekly and nature have only 1 journal.

## 7. State wise Status of Higher Educational Institution

In India, there are 29 states and 7 Union Territories. In every state and UT, there are so many University, CFTIs, and Technical colleges. They are covered under Section 2F/12B of UGC Act. From every state, some higher educational institutions are registered in e Shodh Sindhu. State wise number of registered University, CFTIs, and Technical colleges's and access enabled are given below:

Table: 7

SIN o	State	Registered University	Registered CFTIs	Registered Technical Colleges	Total
1	Andhra Pradesh	10	00	3	13
2	Arunachal Pradesh	1	1	0	2
3	Assam	5	2	2	9
4	Bihar	6	2	0	8
5	Chhattisgarh	04	2	0	6
6	Goa	1	0	1	2
7	Gujarat	11	3	3	17
8	Haryana	8	2	0	10
9	Himachal Pradesh	3	2	0	5
10	Jammu & Kashmir	7	1	0	8
11	Jharkhand	3	4	1	8
12	Karnataka	14	3	7	24
13	Kerala	8	3	13	24
14	Madhya Pradesh	11	7	5	23
15	Maharashtra	21	4	9	34
16	Manipur	1	0	0	01
17	Meghalaya	1	1	0	02
18	Mizoram	1	0	0	01
19	Nagaland	1	0	0	01
20	Odisha	8	2	1	11
21	Punjab	5	4	3	12
22	Rajasthan	13	3	3	19
23	Sikkim	1	0	0	01
24	Tamil Nadu	15	3	5	23
25	Telangana	9	2	0	11
26	Tripura	1	1	0	01
27	Uttar Pradesh	20	4	6	30
28	Uttarakhand	4	2	3	09
29	West Bengal	12	6	4	22
<b>Union Territory</b>					
1	Andaman and Nicobar Islands				
2	Chandigarh	02	01	00	03
3	Dadra and Nagar Haveli				
4	Daman and Diu				
5	Lakshadweep				
6	Delhi – National Capital Territory	13	1	2	16
7	Puducherry (Pondicherry)	01	00	01	02
<b>Total</b>		221	66	72	358

In present time total 358 higher educational institutions are registered with e-Shodh Sindhu from, all state and UT of India. Out of 4500 registered college with e Shodh Sindhu, only 221 University, 66 CFTIs and 72 Technical colleges can access electronic

resources. Maximum number of registered Higher Educational Institution i.e. 34(21 University, 4 CFTIs and 9 Technical Colleges) in E Shodh Sindhu from Maharashtra state and no number of registered college i.e. from Andaman and Nicobar Islands, Dadra and



Nagar Haveli, Daman and Diu, while in Maharashtra state has maximum Higher Educational Institution which accessibility is enable has minimum Andaman and Nicobar Islands, Dadra and Nagar Haveli, Daman and Diu, Lakshadweep not registered yet.

## Findings

- ❖ 9 database through access the e resources from in this project
- ❖ Subject of Mathematic is highest have 40 publishers through 302 journals access in this project.
- ❖ Alphabetically starting letter ‘J’ has highest 1683 journals access through e Shodh Sindhu
- ❖ About JSTOR is highest publisher through access 2585 journals
- ❖ Maharashtra have 34(21 University, 4 CFTIs and 9 Technical Colleges registered in this project.
- ❖ 20 e-journals Full-Text and their website access from in this project

## Suggestions

- i. Every Higher Educational institution must be registered with E Shodh Shindu e resources consortium providing accessibility of e-resources like e-books, e-journals, e database etc. to their students, staffs and faculties and Research scholars for various university in India.
- ii. It must be User orientation on how to search, retrieve and use e-resources should be arranged for the faculties and Research scholars of higher Educational Institution regularly.
- iii. Growth and development of Infrastructure facility should be enhanced for accessing e-resources in the Centrally-funded technical institutions, Universities and Colleges of India.
- iv. Training, workshop, and seminar on e-resources retrieval skills for the Faculties, Students and Research scholars to all educational institutions should be made mandatory.
- v- Provide access to e resources open universities and MHRD-funded institutions that are not covered under existing consortia are get benefit.

## Conclusion

Modern era is called as the age of information, it is essential for everybody to access a lot of information according to his/her wants but there are many obstacles that makes constrain. Finance is the most

important weapon for life to survive in the modern time. All the staffs, faculties, Students, and research scholars of registered Higher Educational Institution in India who are the member this project can access a lot of information from e-Shodh Sindhu: Consortium for Higher education electronic resources to get their benefit. Every higher educational institution must be joining to this e Shodh Sindhu and accessibility of those e resources which are available under this consortium.

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