

## DR. KISHANJIT KUMAR KHATUA

Professor (Civil Engineering Department)

Dean (Alumni, Industry & International relations)

National Institute of Technology, Rourkela-769008, India

☎ +91 661 2462307(O), +91 9861068249(M)

✉: kkkhatua@nitrkl.ac.in [kkkhatua@yahoo.com](mailto:kkkhatua@yahoo.com)

**Research interests:** Surface water hydraulics, Experimental and numerical River flow modelling, Experimental Fluid mechanics and modelling, Computational Fluid Dynamic application to River flow modelling.

<http://www.nitrkl.ac.in/CE/~kkkhatua/>

### EDUCATION

2007	<b>PhD</b> in Water Resources Engineering- National Institute of Technology, Rourkela, India
1996	<b>ME</b> in Hydraulics & Irrigation Engg- VSSUT (Deemed Univ. Government of Odisha), INDIA
1990	Degree in Civil Engineering- VSSUT (Deemed Univ. Government of Odisha), INDIA

### PROFESSIONAL POSITIONS

Since Feb 2020	<b>Professor</b> - National Institute of Technology, Rourkela, India
2008-2020	<b>Associate Professor</b> - National Institute of Technology, Rourkela, India
2006-2008	<b>Assistant Professor</b> - National Institute of Technology, Rourkela, India
1998-2006	<b>Lecturer</b> - National Institute of Technology, Rourkela, India
1997-1998	<b>Lecturer</b> - Jagannath Institute of Engineering & Technology, Odisha, India
1990-1994	<b>Site Engineer</b> - Panchasila Construction, Pvt Ltd., Cuttack, India

### THESIS SUPERVISED/ SUPERVISING

<b>Ph.D. (Total=12)</b>	<b>06- (As the sole Guide)</b>
	<b>02- (As the Main- Guide)</b>
	<b>04- (As the Co- Guide)</b>
<b>M. Tech</b>	<b>80- completed</b>

### Detailed List of Ph.D. awarded/completed

Sl. No	Name and current position	Guidance	Enrolled- Graduated
1	Dr. PRABIR KUMAR MOHANTY	Sole Supervisor	15 Dec 2009 to 03 Jul 2014
2	Dr. BANDITA NAIK	Sole Supervisor	02 Jan 2012 to 17 Apr 2017
3	Dr. ARPAN PRADHAN	Sole Supervisor	07 Jul 2014 to 16 Sep 2019
4	Dr. KAMALINI DEVI	Sole Supervisor	07 Jul 2014 to 12 Jun 2018
5	Dr. BHABANI SHANKAR DAS	Sole Supervisor	07 Jul 2014 to 16 Nov 2018
6	Dr. SAINI SIKTA DASH	Main Supervisor	10 Jan 2014 to 12 Oct 2018
7	Dr. ALOK ADHIKARI	Co-Supervisor	03 Aug 2011 to 26 Jul 2019
8	Dr. SHANTI KAR	Co-Supervisor	03 Jan 2013 to 11 Jun 2020
9	Dr. MRUNMAYEE MANJARI SAHOO	Co-Supervisor	06 Jan 2014 to 07 Sep 2018
10	DR. JNANA RANJAN KHUNTIA	Co-Supervisor	25 Jul 2016 to 23 Nov. 2020
11	DR. SIPRA RANI PRADHAN	Main Supervisor	December 2021
12	MR. SATISH KUMAR	Sole Supervisor	( Submitting)

### APPRECIATIONS/AWARDS

- “THE BEST TEACHER AWARD 2021” of NIT Rourkela, India
- “DAMODAR SAHOO MEMORIAL AWARD”, The Institution of Engineers (India), Odisha centre, March 2021,

- “BEST RESEARCH AWARD” For the Contribution and Honourable Achievement in Innovative Research 11th Sep 2020
- “Executive member” of the Indian Society of Hydraulics ( ISH) 2021-
- “Expert member” of the Technical committee to undertake studies on floods in river Mahanadi and the adjoining villages- 2022
- “ER GOVINDA CHANDRA SAHU AWARD “awarded by institution of engineers (India), award for the best paper in 60th annual technical session Bhubaneswar, India, 2019.
- “OUTSTANDING CONTRIBUTION AS REVIEWER” International Journal of Measurement, Elsevier for high quality reviewing a numbers of research papers in the reputed journal 2017
- “JALA BIGYAN PURASKAR” awarded by Indian society of hydraulics (ISH), Tayler and Francis, at IIT Roorkee, for the best research paper published, December 2015
- “UKIERI-UGC THEMATIC AWARD 2013” awarded by British council, new Delhi for the award of joint R& D project with University of Leeds and University of Birmingham, UK
- “DST PROJECT EXCELLENT CERTIFICATE” awarded by DST, New Delhi, government of India awarded for excellent progress and completed the R& D project in 2012
- IEI (INDIA) INSTITUTE AWARD awarded by institution of engineers(i) for the best paper in civil engineering February in 2011
- “A B JENA MEMORIAL GOLD MEDAL” awarded by institution of engineers(i) for the best paper in water resources engineering February 2010
- GOLD MEDAL FROM THE INSTITUTION OF ENGINEERS(I) awarded by for the best paper in water resources engineering January 2008
- GOLD MEDAL FROM THE INSTITUTION OF ENGINEERS (I) for the best paper in water resources engineering January 2007
- GATE Scholarship from MHRD 1995

## **EDITORIAL BOARD MEMBERS/REVIEWERS IN JOURNALS**

- *Associate editor of Journal of Hydraulic Engineering, ISH, Tayler and Francis, 2018-continuing*
- *Journal of Hydraulic Engineering, ASCE,*
- *International Journal of Measurement, Elsevier*
- *International Journal of Sediment Research, Elsevier*
- *Advances in Water Resources, Elsevier*
- *Journal of Hydro-environment Research, Elsevier*
- *Experimental Thermal and Fluid Science, Elsevier*
- *Journal of Hydraulic Engineering, KSCE*
- *Journal of Hydraulic Engineering, ISH,*
- *International Journal of Sediment transport,*
- *International Journal of Engineering Applications of Computational Fluid Mechanics,*
- *International Journal of Hydrology, Science PG publishing group*
- *International Journal of Hydraulic Engineering, USA*

## **PUBLICATIONS**

- ORCID ID <https://orcid.org/0000-0002-8843-211X>
- Scopus Author ID: 26031547500 Documents 89 **CITATIONS = 614, H-INDEX = 12**
- ResearcherID: N-4334-2017 publications 101 **CITATIONS =408, H-INDEX = 10**  
(**GOOGLE SCHOLAR CITATIONS = 1296, H-INDEX = 17 , i10-index=40**)























**A: International Journals: (SCI and SCOPUS ONLY)**

Sl. no	Author	Title	Name of Journal, Year, Vol, Page
<b>2022</b>			
1.	Satish Kumar Jnana Ranjan Khuntia Kamalini Devi Bhabani Shankar Das Kishanjit Kumar Khatua	“Discussion on “Prediction of Flow Resistance in an Open Channel over Movable Beds Using Artificial Neural Network”	ASCE's Journal of Hydrologic Engineering.( accepted)
2.	Ketan Kumar Nandi, Chandan Pradhan, Subashisa Dutta, and Kishanjit Kumar Khatua,	How dynamic is the Brahmaputra? Understanding the process–form–vegetation interactions for hierarchies of energy dissipation	<i>Ecohydrology, vol.15, no.3, pp.16</i> 2022 <a href="https://doi.org/10.1002/eco.2416">https://doi.org/10.1002/eco.2416</a>
3.	Lakshman Rao P; Sree Sai Prasad B; Sharma A, Khatua K. K	Experimental and numerical analysis of velocity distribution in a compound meandering channel with double layered rigid vegetated flood plains	<i>Flow Measurement and Instrumentation 83 (2022) 102111</i> Jan 2022 <a href="https://doi.org/10.1016/j.flowmeasinst.2021.102111">https://doi.org/10.1016/j.flowmeasinst.2021.102111</a>
<b>2021</b>			
4.	Devi K., Khuntia, J.R, Dash B., and Khatua K. K	Analytical solution for depth averaged velocity and boundary shear in a compound channel	<i>Proceedings of Institution of Civil Engineers- Water Management</i> (June 2021),174 (3),143-158 DOI: <a href="https://doi.org/10.1680/jwama.18.00062">10.1680/jwama.18.00062</a>
5.	Kumar S, Khuntia, J.R, and Khatua K. K	Prediction of Flow Resistance in an Open Channel over Movable Beds Using Artificial Neural Network	<i>Journal of Hydrologic Engineering, ASCE (January 2021), 26 (5),</i> 04021015 DOI: <a href="https://doi.org/10.1061/(ASCE)HE.1943-5584.0002085">10.1061/(ASCE)HE.1943-5584.0002085</a> .
<b>2020</b>			
6.	Das, B.S., Devi K., Khuntia, J.R., and Khatua K. K	Discharge estimation in converging and diverging compound open channels by using adaptive neuro-fuzzy inference system	<i>Canadian Jr of Civil Engg (2020) 47</i> (12), 1327-1344 NRC Res Press <a href="https://doi.org/10.1139/cjce-2018-0038">https://doi.org/10.1139/cjce-2018-0038</a>
7.	Pradhan S and Khatua K. K	Momentum transfer coefficients at the adjoining interfaces of a compound channel	<i>Flow Measurement and Instrumentation, Elsevier</i> ( October 2020) 75, 101792 <a href="https://doi.org/10.1016/j.flowmeasinst.2020.101792">https://doi.org/10.1016/j.flowmeasinst.2020.101792</a>
8.	Devi K., and Khatua K. K	Boundary shear distribution in a compound channel with	<i>Proceedings of Institution of Civil Engineers - Water Management</i>

		differential roughness	(December 2020)- , 1-19 <a href="https://doi.org/10.1680/jwama.19.00035">https://doi.org/10.1680/jwama.19.00035</a>
9.	Devi K., and Khatua K. K	Prediction of apparent shear stress in an asymmetric compound channel	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> 26 (1), 1-11 DOI: <a href="https://doi.org/10.1080/09715010.2018.1429326">10.1080/09715010.2018.1429326</a>
<b>2019</b>			
10.	Pradhan, A., Khatua, K.K.	Discharge prediction in meandering compound channels	<i>International Journal of Water, 2019 Vol.13 No.3, pp.209 - 220.</i> <a href="https://doi.org/10.1504/IJW.2019.101335">10.1504/IJW.2019.101335</a>
11.	Mohanty, P.K., Mohanty, L.P., Khatua, K.K.	Discharge estimation in wide meandering compound channels	<i>ISH Journal of Hydraulic Engineering, ISH Journal of Hydraulic Engineering, 1-15</i> <a href="https://doi.org/10.1080/09715010.2019.1703834">10.1080/09715010.2019.1703834</a>
12.	Khuntia, J.R., Devi, K., Khatua, K.K.	Turbulence characteristics in a rough open channel under unsteady flow conditions	<i>ISH Journal of Hydraulic Engineering, ISH Journal of Hydraulic Engineering, 1-15</i> <a href="https://doi.org/10.1080/09715010.2019.1658549">10.1080/09715010.2019.1658549</a>
13.	Pradhan, A, and Khatua, K.K	Discharge Estimation at the Apex of Compound Meandering Channels	<i>Water Resources Management (July 2019)</i> <i>Springer link, 33 (10), pp. 3469-3483.</i> <a href="https://doi.org/10.1007/s11269-019-02309-5">https://doi.org/10.1007/s11269-019-02309-5</a>
14.	Khuntia, J.R., Devi K., and Khatua K. K.	Flow distribution in a straight compound channel using an artificial neural network	<i>Sustainable Water Resources Management, July 2019</i> <a href="https://doi.org/10.1007/s40899-019-00341-2">https://doi.org/10.1007/s40899-019-00341-2</a>
15.	Das, B.S., Devi K., and Khatua, K.K.	Prediction of discharge in converging and diverging compound channel by gene expression programming	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis, December, January 2019</i> <a href="https://doi.org/10.1080/09715010.2018.1558116">https://doi.org/10.1080/09715010.2018.1558116</a>
16.	Devi K., and Khatua K. K	Discharge prediction in asymmetric compound channels	<i>Journal of Hydro-environment Research, Elsevier, Volume 23, March 2019, Pages 25-39</i> <a href="https://doi.org/10.1016/j.jher.2019.02.001">https://doi.org/10.1016/j.jher.2019.02.001</a>
17.	S. Banerjee, B. Naik, P. Singh & K. K. Khatua	Flow resistance in gravel bed open channel flows case: intense transport condition	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> Pages 298-309 , <b>Volume 25, 2019 - Issue 3</b> DOI: <a href="https://doi.org/10.1080/09715010.2017.1422189">/10.1080/09715010.2017.1422189</a>
18.	Devi K., and Khatua K. K.	An analytical method for over bank flow modelling	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> vol.25, no.2, pp.214-222,2019. <a href="https://doi.org/10.1080/09715010.2017.1398113">10.1080/09715010.2017.1398113</a>
19.	Das, B.S., and	Water surface profile	<i>Journal of Hydraulic Engineering,</i>

	Khatua, K.K.	computation for compound channel having diverging floodplains	<i>ISH, Taylor &amp; Francis</i> , vol.25, no.3, pp.336-349,2019 <a href="https://doi.org/10.1080/09715010.2018.1426056">https://doi.org/10.1080/09715010.2018.1426056</a>
<b>2018</b>			
20.	Singh P.K. , & Khatua K K.,	Lateral dissemination of depth-averaged velocity, boundary shear stress and stage-discharge curves for compound channels	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> , December, 2018  <a href="https://doi.org/10.1080/09715010.2018.1549962">https://doi.org/10.1080/09715010.2018.1549962</a>
21.	Khuntia, J.R., Devi K., and Khatua K. K.	Prediction of depth-averaged velocity in an open channel flow	<i>Applied Water Science, Springer</i> , October, 2018, 8:172  <a href="https://doi.org/10.1007/s13201-018-0812-9">https://doi.org/10.1007/s13201-018-0812-9</a>
22.	Singh P.K , Banerjee S, & Khatua K K.,	Flow resistance in straight gravel bed inbank flow with analytical solution for velocity and boundary shear distribution	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> , August, 2018  <a href="https://doi.org/10.1080/09715010.2018.1505561">https://doi.org/10.1080/09715010.2018.1505561</a>
23.	Singh P.K , Banerjee S, Naik B, Kumar A & Khatua K K.,	Lateral distribution of depth average velocity & boundary shear stress in a gravel bed open channel flow	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> , August, 2018  <a href="https://doi.org/10.1080/09715010.2018.1505562">https://doi.org/10.1080/09715010.2018.1505562</a>
24.	Naik, B., Padhi, E. & Khatua, K.K.	Flow Prediction of Boundary Shear Stress and Depth Average Velocity of a Compound Channel with Narrowing Floodplain	<i>Iran J Sci Technol Trans Civ Eng</i> , December 2018, Volume 42, Issue 4, pp 415–425  <a href="https://doi.org/10.1007/s40996-018-0105-4">https://doi.org/10.1007/s40996-018-0105-4</a>
25.	Das, B.S., and Khatua, K.K.	Flow resistance in compound channel having diverging and converging floodplains	<i>Journal of Hydraulic Engineering, ASCE, Volume 144 Issue 8 - August 2018</i> , pp 04018051-1-21,  <a href="https://doi.org/10.1061/(ASCE)HY.1943-7900.0001496">https://doi.org/10.1061/(ASCE)HY.1943-7900.0001496</a>
26.	Pradhan, A, Khatua, K.K.and Sankalp S.	Variation of velocity distribution in rough meandering channels	<i>Advances in Civil Engineering</i> , vol. 2018, Article ID 1569271, 12 pages, March 2018.  <a href="https://doi.org/10.1155/2018/1569271">https://doi.org/10.1155/2018/1569271</a>
27.	Das, B.S., and Khatua, K.K.	Numerical Method to Compute Water Surface Profile for Converging Compound Channel	<i>Arabian Journal for Science and Engineering</i> , October 2018, Volume 43, Issue 10, pp 5349–5364  <a href="https://doi.org/10.1007/s13369-018-3161-y">https://doi.org/10.1007/s13369-018-3161-y</a>
28.	Devi K., and Khatua K. K.	Flow Distribution in an Unsymmetrical Compound Channel	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> 24 (1), 16-2, June 2018 DOI: <a href="https://doi.org/10.1080/09715010.2017.1340096">10.1080/09715010.2017.1340096</a>
29.	Devi K., and Khatua K. K	Prediction of apparent shear stress in an asymmetric	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> Jan 2018



		compound channel	DOI: <a href="https://doi.org/10.1080/09715010.2018.1429326">10.1080/09715010.2018.1429326</a>
<b>2017</b>			
30.	Pradhan A., and Khatua K. K.	Gene-Expression Programming to Predict Manning's n in Meandering Flows	<i>Canadian Journal of Civil Engineering, Springer</i> , 45 (4), 304-313, November 2017 DOI:                      
31.	Pradhan A., and Khatua K. K.	Assessment of Roughness Coefficient for Meandering Compound Channels	<i>Korean Society of Civil Engineers, Springer</i> , pp 1-13, Nov, 2017 DOI <a href="https://doi.org/10.1007/s12205-017-1818-9">10.1007/s12205-017-1818-9</a>
32.	Khuntia, J.R., Devi K., and Khatua K. K.	Boundary shear stress distribution in straight compound channel flow using artificial neural network	<i>Journal of Hydrologic Engineering, ASCE</i> Volume 23 Issue 5 - May 2018, pp 04018014-1-10 DOI: <a href="https://doi.org/10.1061/(ASCE)HE.1943-5584.0001651">10.1061/(ASCE)HE.1943-5584.0001651</a>
33.	B. Naik · K. K. Khatua · E. Padhi · P. Singh	Loss of Energy in the Converging Compound Open Channels	<i>Arabian Journal for Science and Engineering, November, Springer</i> , October 2018, Volume 43, <a href="https://doi.org/10.1007/s13369-017-2963-7">Issue 10</a> , pp 5119–5127 DOI <a href="https://doi.org/10.1007/s13369-017-2963-7">10.1007/s13369-017-2963-7</a>
34.	B. Naik, K. K. Khatua, Nigel Wright, A. Sleight & P. Singh	Numerical modeling of converging compound channel flow	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> Sep 2017, DOI <a href="https://doi.org/10.1080/09715010.2017.1369180">doi.org/10.1080/09715010.2017.1369180</a>
35.	Devi K., and Khatua K. K., B. S. Das & J. R. Khuntia	Evaluation of interacting length in prediction of over bank flow.	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> Volume 23, Issue 2, pp 187-194 .,Jan, 2017 DOI: <a href="https://doi.org/10.1080/09715010.2016.1275828">10.1080/09715010.2016.1275828</a>
36.	Naik B, Khatua K K Wright N.; Sleight A	Stage-Discharge Prediction for Converging Compound Channels with Narrow Floodplains	<i>Journal of Irrigation and Drainage Engineering, ASCE, (August 2017):</i> Volume 143 Issue 8 <a href="https://doi.org/10.1061/(ASCE)IR.1943-4774.0001184">doi.org/10.1061/(ASCE)IR.1943-4774.0001184</a>
37.	Devi, K., Khatua, K. K., & Khuntia, J. R.	Boundary Shear Stress Distribution for a Two-Stage Asymmetric Compound Channel.	<i>Arabian Journal for Science and Engineering, 2017, Springer</i> Volume 42, Issue 3, pp 1077–1091. DOI: <a href="https://doi.org/10.1007/s13369-016-2321-1">10.1007/s13369-016-2321-1</a>
38.	Devi K & K.K.Khatua	Depth averaged velocity and boundary shear stress prediction in asymmetric compound channels.	<i>Arabian Journal for Science and Engineering, Springer (March, 2017)</i> , pp 1–14, DOI: <a href="https://doi.org/10.1007/s13369-017-2486-2">10.1007/s13369-017-2486-2</a> .
39.	Das, B.S., Khatua, K.K. & Devi, K.	Numerical solution of depth-averaged velocity and boundary shear stress	<i>Arabian Journal for Science and Engineering, Springer (Jan 2017)</i> , Volume 42, Issue 3, pp 1305-

		distribution in converging compound channels.	1319. DOI: <a href="https://doi.org/10.1007/s13369-016-2382-1">10.1007/s13369-016-2382-1</a>
40.	Naik B, Khatua K K.	Water Surface profile Computation for Compound channels with Narrow Flood Plains	<i>Arabian Journal for Science and Engineering, Springer, March 2017, Volume 42, Issue 3, pp 941–955</i> <a href="https://doi.org/10.1007/s13369-016-2236-x">doi:10.1007/s13369-016-2236-x</a>
41.	Devi K, Khatua, K.K & Khuntia J R	Discharge assessment in an asymmetric compound channel by zero shear interface method	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> Volume 23, 2017 - Issue 2, PP 126-134 <a href="https://doi.org/10.1080/09715010.2016.1250231">doi.org/10.1080/09715010.2016.1250231</a>
42.	Sahoo M M, Patra K C, Swain J B, Khatua K K.	Evaluation of water quality with application of Bayes' rule and entropy weight method	<i>European Journal of Environmental and Civil Engineering, Taylor and Francis,</i> Volume 21, 2017 - Issue 6, PP 730-752 <a href="https://doi.org/10.1080/19648189.2016.1150895">doi/full/10.1080/19648189.2016.1150895</a>
<b>2016</b>			
43.	Dash, S., Khatua, K.K.	Sinuosity Dependency on Stage-Discharge in Meandering Channels.	<i>Journal of Irrigation and drainage, ASCE 2016, September, Volume 142, Issue 9</i> <a href="https://doi.org/10.1061/(ASCE)IR.1943-4774.0001037">doi.org/10.1061/(ASCE)IR.1943-4774.0001037</a>
44.	Devi, K., and Khatua, K.K	Prediction of depth averaged velocity and boundary shear distribution of a compound channel based on the mixing layer theory	<i>Flow Measurement and Instrumentation, Elsevier</i> 2016 Aug 31, Vol 50: 147-57 <a href="https://doi.org/10.1016/j.flowmeasinst.2016.06.020">doi.org/10.1016/j.flowmeasinst.2016.06.020</a>
45.	Naik B, Khatua K K	Boundary Shear Stress Distribution Along The Converging Floodplain Of A Non Prismatic Compound Channel Flow	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> 2016, June, Volume 22, - Issue 2, 212-219 <a href="https://doi.org/10.1080/09715010.2016.1165633">doi.org/10.1080/09715010.2016.1165633</a>
46.	Devi, K., and K. K. Khatua, and Bhabani S. Das	A numerical solution for depth-averaged velocity distribution in an open channel flow.	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> 2016, June:PP 262-271, Volume 22, Issue 3 <a href="https://doi.org/10.1080/09715010.2016.1184104">doi.org/10.1080/09715010.2016.1184104</a>
47.	Khuntia, J.R., Devi, K. & Khatua, K.K.	Variation of local friction factor in an open channel flow	<i>Indian Journal of Science &amp; Technology. Vol. 46 (9), pp.: 1-6, 2016</i> DOI: <a href="https://doi.org/10.17485/ijst/2016/v9i46/105256">10.17485/ijst/2016/v9i46/105256</a>
<b>2015</b>			
48.	Moharana S. Khatua	Application of adaptive	<i>International Journal of Sustainable</i>

	K.K, &Sahu M.	neuro-fuzzy inference system for the estimation of roughness coefficient of a meandering open-channel flow	<i>Development and Planning, Witpress, UK</i> 2015, Vol: 10(1):87-99. <a href="https://doi.org/10.2495/SDP-V10-N1-87-99">DOI: 10.2495/SDP-V10-N1-87-99</a>
<b>2014</b>			
49.	Mohanty, P.K. and Khatua, K.K.	Estimation of discharge and its distribution in compound channels	<i>International Journal of Hydrodynamics, Science Direct, Elsevier</i> 2014, Jan, 26(1):pp144-154 <a href="https://doi.org/10.1016/S1001-6058(14)60017-2">DOI: 10.1016/S1001-6058(14)60017-2</a>
50.	Moharana, S. & Khatua, K.K	Prediction of roughness coefficient of a meandering open channel flow using Neuro-Fuzzy Inference System	<i>International Journal of Measurements, Science Direct, Elsevier</i> 2014,Jan, 51,pp 112–123, <a href="https://doi.org/10.1016/j.measurement.2014.01.026">doi.org/10.1016/j.measurement.2014.01.026</a>
51.	Mohanty, P.K., Khatua, K.K. and Dash, S. S.	Flow prediction in two stage wide compound Channels	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> 2014, May, pp 151-160, Volume 20, Issue 2, <a href="https://doi.org/10.1080/09715010.2013.857471">DOI: 10.1080/09715010.2013.857471</a>
52.	M. Patnaik, K.C. Patra, K.K. Khatua & L. Mohanty	Modelling boundary shear stress in highly sinuous meandering channels	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> 2014, March, Volume 20, 2014 - Issue 2, <a href="https://doi.org/10.1080/09715010.2013.860733">doi.org/10.1080/09715010.2013.860733</a>
53.	L. Mohanty, K.C. Patra, K.K. Khatua & M. Patnaik	Modelling the depth-averaged velocity in trapezoidal meandering channels	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> 2014, March, Volume 20, - Issue 1 <a href="https://doi.org/10.1080/09715010.2013.857472">doi.org/10.1080/09715010.2013.857472</a>
54.	Sahu, M., Mohapatra, S. M., Biswal, K. C., and Khatua, K.K.	Prediction of flow resistance in compound open channel.	<i>Journal of Hydro informatics (International Water Association Publishing). pp 19-32, 16.(1), 2014, Jan.</i> <a href="https://doi.org/10.2166/hydro.2013.077">DOI: 10.2166/hydro.2013.077</a>
<b>2013</b>			
55.	P. K. Mohanty, S. S. Dash, K. K. Khatua & K. C. Patra	Energy And Momentum Coefficients For Wide Compound Channels	<i>River Basin Management VII, WIT Transactions on Ecology and The Environment, 2013, vol 172, pp 87-97</i> <a href="https://doi.org/10.2495/RBM130081">DOI: 10.2495/RBM130081</a>
56.	Patnaik, M., Patra, K.C., Khatua, K.K. and Mohanty, L.	Modeling Boundary Shear stress In Highly Sinuous Meandering Channels	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i>



			2013, Nov, Issue 2 pp 161-168, Volume 20, <a href="https://doi.org/10.1080/09715010.2013.860733">DOI: 10.1080/09715010.2013.860733</a>
57.	S. Moharana, K. K. Khatua & M. Sahu	Friction Factor Of A Meandering Open Channel Flow	<i>River Basin Management VII, WIT Transactions on Ecology and The Environment, Witpress, UK</i> 2013, vol 172, pp 75 – 86 doi: <a href="https://doi.org/10.2495/RBM130071">10.2495/RBM130071</a>
58.	K. C. Patra, N. Sahoo & K. K. Khatua	Distribution of boundary shear in compound channel with rough floodplains	<i>River basin management, WIT Transactions on Ecology and The Environment, Wit press, UK</i> 2013, pp.99-110, Vol 172, doi: <a href="https://doi.org/10.2495/RBM130091">10.2495/RBM130091</a>
59.	Meena, R., Jha, R. and Khatua, K.K.	Precipitation run-off simulation for a Himalayan River Basin, India using Artificial Neural Network Algorithms	<i>International Journal of Sciences in Cold and Arid Regions</i> 2013, pp 0085-0095, Vol5 (issue 1) <b>DOI :</b> <a href="https://doi.org/10.3724/SP.J.1226.2013.00085">10.3724/SP.J.1226.2013.00085</a>
60.	Khatua, K.K., Patra, K. C., Mohanty, P.K., AND SAHU, M.	Selection Of Interface For Discharge Prediction In A Compound Channel Flow	<i>International Journal of Sustainable Development and Planning, Wit press, UK</i> 2013, Volume 8, Issue 2, 214-230, DOI: <a href="https://doi.org/10.2495/SDP-V8-N2-214-230">10.2495/SDP-V8-N2-214-230</a>
61.	Khatua, K.K., Patra, K. C, Nayak P & Sahoo N	Stage–discharge Prediction For Meandering Channels	<i>International Journal of Computational Methods and Experimental Measurements (CMEM), Witpress, UK</i> 2013, Volume 1 , Issue 1, pp 80-92, DOI: <a href="https://doi.org/10.2495/CMEM-V1-N1-80-92">10.2495/CMEM-V1-N1-80-92</a>
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62.	Mohanty, P.K. ,Dash S., and Khatua, K.K.	Flow investigations in a wide meandering compound channel	<i>International Journal of Hydraulic Engineering Scientific &amp; Academic PUBLISHING</i> 2012, Issue 1, VOL 1, PP. 83-94, USA. DOI: <a href="https://doi.org/10.5923/j.ijhe.20120106.04">10.5923/j.ijhe.20120106.04</a>
63.	Khatua, K.K., Patra, K. C. and Jha, R.	Apparent shear stress in compound channel.	<i>Journal of Hydraulic Engineering, ISH, Taylor &amp; Francis</i> 2012, June, Pp 1-14 <b>DOI:</b> <a href="https://doi.org/10.1080/09715010.2010.10515011">10.1080/09715010.2010.10515011</a>
64.	Khatua, K. K. and Patra, K. C.	Flow distribution in meandering compound channel flow.	<i>ISH Journal of Hydraulic Engineering Taylor &amp; Francis</i> 2012, June, Pp 11-26   <b>DOI:</b>

			<a href="https://doi.org/10.1080/09715010.2009.10514956">10.1080/09715010.2009.10514956</a>
65.	Khatua, K.K. and Patra, K. C.	Boundary shear stress distribution in compound channel flow.	<i>Journal of Hydraulic Engineering</i> , ISH, Taylor & Francis 2012, June, Pp 39-54 , DOI: <a href="https://doi.org/10.1080/09715010.2007.10514882">10.1080/09715010.2007.10514882</a>
66.	Sahu, M., Khatua, K.K., and Mahapatra, S.S.	Prediction of entrance length for low Reynolds number flow in pipe using neuro-fuzzy inference system.	<i>International Journal of Expert Systems with Applications, Science Direct, Elsevier</i> 2012, March, Volume 39 Issue 4, Pp 4545–4557, <a href="https://doi.org/10.1016/j.eswa.2011.09.132">doi.org/10.1016/j.eswa.2011.09.132</a>
67.	Khatua, K.K., Patra, K. C. and Mohanty, P.K.	Stage Discharge Prediction for Straight and Smooth Compound Channels with Wide Floodplains	<i>Journal of Hydraulic Engineering, ASCE</i> 2012, January.Vol. 138, pp 93-99, No. 1, <a href="https://doi.org/10.1061/(ASCE)HY.1943-7900.0000491">doi.org/10.1061/(ASCE)HY.1943-7900.0000491</a>
<b>2011</b>			
68.	Sahu, M., Khatua, K. K., and Mahapatra, S. S.	A neural network approach for prediction of discharge in straight compound open channel flow	<i>Journal of Flow Measurements and Instrumentation, Science Direct, Elsevier</i> 2011, October ,Vol. 22, Issue 5 PP 438–446 <a href="https://doi.org/10.1016/j.flowmeasinst.2011.06.009">doi.org/10.1016/j.flowmeasinst.2011.06.009</a>
69.	Khatua, K.K., Patra, K. C., and Mohanty, P. K.	Apparent Shear Stress and Boundary Shear Distribution in a Compound Channel Flow	<i>Computational Methods and Experimental Measurements, Wessex Institute Press, The New Forest, UK</i> 2011, April, Volume XV, PP 215-228,Vol 51, DOI: <a href="https://doi.org/10.2495/CMEM110201">10.2495/CMEM110201</a>
70.	Khatua, K.K., Patra, K. C. and Nayak, P.	Meandering effect for evaluation of roughness coefficients in open channel flow	<i>WIT Transactions on Ecology and the Environment</i> 2011, 146, Pp 213 - 224 DOI: <a href="https://doi.org/10.2495/RM110191">10.2495/RM110191</a>

## B: International and National (peer reviewed) Conferences papers

Sl.No	Author	Title of Paper Presented	Conference Name & Details	Year and remark
1.	Jnana Ranjan Khuntia, Kamalini Devi, Bhabani Shankar Das, and Kishanjit Kumar Khatua	Turbulence Characteristics in a Rough Open Channel Under Unsteady Flow Conditions	River Hydraulics, Hydraulics, Water Resources and Coastal Engineering Vol. 2, water science and technology library, 2022,	<a href="https://doi.org/10.1007/978-3-030-81768-8_12">https://doi.org/10.1007/978-3-030-81768-8_12</a>
2.	Kishanjit Kumar Khatua and Deepika P. Palai	Flow Distribution in Diverging Compound Channel	River Hydraulics, Hydraulics, Water Resources and Coastal	<a href="https://doi.org/10.1007/978-3-030-81768-8_37">https://doi.org/10.1007/978-3-030-81768-8_37</a>

		Using LES Models	Engineering Vol. 2, water science and technology library, 2022,	
3.	Anurag Handique, Arpan Pradhan, C. Sarat Chandra, and Kishanjit Kumar Khatua	Depth-Averaged Velocity Distribution in a Meandering Compound Channel Using Calibrating Coefficients	River Hydraulics, Hydraulics, Water Resources and Coastal Engineering Vol. 2, water science and technology library, 2022,	<a href="https://doi.org/10.1007/978-3-030-81768-8_19">https://doi.org/10.1007/978-3-030-81768-8_19</a>
4.	Nirjharini Sahoo, Kishanjit Kumar Khatua, and Ramakar Jha	Study on the Variation of Distribution of Velocity in Accordance with Differential Roughness in a Compound Open Channel	River Hydraulics, Hydraulics, Water Resources and Coastal Engineering Vol. 2, water science and technology library, 2022,	<a href="https://doi.org/10.1007/978-3-030-81768-8_36">https://doi.org/10.1007/978-3-030-81768-8_36</a>
5.	Kamalini Devi, Bhabani Shankar Das, Jnana Ranjan Khuntia, and Kishanjit Kumar Khatua	Boundary Shear Stress Distributions in Compound Channels Having Narrowing and Enlarging Floodplains	River Hydraulics, Hydraulics, Water Resources and Coastal Engineering Vol. 2, water science and technology library, 2022,	<a href="https://doi.org/10.1007/978-3-030-81768-8_11">https://doi.org/10.1007/978-3-030-81768-8_11</a>
6.	Sarjati Sahoo, Jnana Ranjan Khuntia, Kamalini Devi, and Kishanjit Kumar Khatua	Energy and Momentum Correction Coefficients in Compound Open Channel Flow	River Hydraulics, Hydraulics, Water Resources and Coastal Engineering Vol. 2, water science and technology library, 2022,	<a href="https://doi.org/10.1007/978-3-030-81768-8_26">https://doi.org/10.1007/978-3-030-81768-8_26</a>
7.	Priya Shejule, Jnana Ranjan Khuntia, and Kishanjit Kumar Khatua	Calibrating Coefficients of Emerged Vegetative Open Channel Flow	River Hydraulics, Hydraulics, Water Resources and Coastal Engineering Vol. 2, water science and technology library, 2022,	<a href="https://doi.org/10.1007/978-3-030-81768-8_21">https://doi.org/10.1007/978-3-030-81768-8_21</a>
8.	Bhabani Shankar Das, Kamalini Devi, Jnana Ranjan Khuntia, and Kishanjit Kumar Khatua	Flow Distributions in a Compound Channel with Diverging Floodplains	River Hydraulics, Hydraulics, Water Resources and Coastal Engineering Vol. 2, water science and technology library, 2022,	<a href="https://doi.org/10.1007/978-3-030-81768-8_10">https://doi.org/10.1007/978-3-030-81768-8_10</a>
9.	Laxmikant Das, Kishanjit Kumar Khatua, and Bhabani Shankar Das,	Experimental and Numerical Analyses of Boundary Shear Stress in Non-prismatic Compound Channel	River Hydraulics, Hydraulics, Water Resources and Coastal Engineering Vol. 2, water science and technology library, 2022,	<a href="https://doi.org/10.1007/978-3-030-81768-8">https://doi.org/10.1007/978-3-030-81768-8</a>
10.	Jnana Ranjan Khuntia, Kamalini Devi, Bhabani	Turbulent structures under unsteady flow	Proceedings of HYDRO 2020 Internationl: 25th	26-28 March 2021 Civil Engineering

	Shankar Das, Kishanjit Kumar Khatua, and Somesh Jena	conditions through emergent rigid vegetation	International Conference on Hydraulics Water Resources and Coastal Engineering, 2021, March,	Department, NIT Rourkela, INDIA
11.	Rohini Rani, Kishanjit K Khatua, Pravas Ranjan Pradhan	Computation of Gradually Varied Flow depths in a Channel System Using Numerical method	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
12.	G Rahul Indivar, Kishanjit Kumar Khatua	Numerical Simulation of Undular Hydraulic Jump Using Ansys Fluent	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
13.	Jnana Ranjan Khuntia, Kamalini Devi, Bhabani Shan	Turbulent Structures under Unsteady Flow Conditions Through Emergent Rigid Vegetation	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
14.	Pinakana Lakshmanrao, B. Sri Sai Prasad, K.K. Khatua	Analysing Kinetic Energy and Momentum Coefficients In a Meandering Channel With And Without Vegetated Flood Plains	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
15.	Bhabani Shankar Das, Kamalini Devi, Jnana Ranjan Khuntia, K K Khatua	Prediction of discharge in non- prismatic compound channel using Extended ISM	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
16.	K. K. Nandi, C. Pradhan, J. Sultan, S. Dutta, K. K. Khatua	Energy Dissipation Modeling in Highly Braided Brahmaputra River	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
17.	Sarjati Sahoo, Kamalini Devi, Jnana Ranjan Khuntia, Kishanjit Kumar Khatua	Study of Unsteady Flow Parameters and Hysteresis Effect in a Simple	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA

		Channel under Unsteady Flow Condition	Resources and Coastal Engineering)	
18.	Umesh Meena, K. K. Khatua	An Overview of Dam Failure and It's Analysis Methods	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
19.	Biswajit Pradhan, Kisanjit Kumar Khatua, Prakash Chandra Swain	Dynamics of land use and land cover change (LULC) using geospatial techniques: A case study of Mahanadi River basin, Odisha.	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
20.	Mrutyunjaya Baliarsingh, K. K. Khatua	Gene Expression Programming for Prediction of Friction Factor in OC Flow	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
21.	Bedank Agrawal, Kishanjit Kumar Khatua	Case Study on Kaddam Dam	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
22.	Bedank Agrawal, K. K. Khatua	Dam Break Analysis Of Hirakud Dam Using HEC-RAS	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
23.	Souvick Kumar Shaw, K. K. Khatua	Flood Routing In A River By Modified Pul's Method	HYDRO 2020 INTERNATIONAL (25th International Conference on Hydraulics, Water Resources and Coastal Engineering)	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
24.	Pravas Ranjan Pradhan, Kishanjit Kumar Khatua, Rohini Rani	A solution of Saint-Venant equation using Numerical method	HYDRO 2020 INTERNATIONAL	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA
25.	Sree Sai Prasad B, P Lakshman Rao, K.K. Khatua	Flow Modelling and Evaluating Impact of	HYDRO 2020 INTERNATIONAL (25th International Conference on	26-28 March 2021 Civil Engineering Department, NIT Rourkela, INDIA



		Roughness on Turbulent Flow Properties in Diverging Compound Channel	Hydraulics, Water Resources and Coastal Engineering)	
26.	Das B, Devi, Khuntia, J.R, Khatua K. K”	Experimental investigation of flow in a compound channel with symmetric diverging floodplains	River Flow 2020	Proceedings of the 10th Conference on Fluvial Hydraulics (Delft, Netherlands, 7-10 July 2020) (1st ed.). CRC Press. <a href="https://doi.org/10.1201/b22619">https://doi.org/10.1201/b22619</a>
27.	Khuntia, J.R, Proust S Khatua K. K	Unsteady open-channel flows over rough bed with and without emergent rigid vegetation: A laboratory experiment	River Flow 2020	Proceedings of the 10th Conference on Fluvial Hydraulics (Delft, Netherlands, 7-10 July 2020) (1st ed.). CRC Press. <a href="https://doi.org/10.1201/b22619">https://doi.org/10.1201/b22619</a>
28.	Devi K, Das B,, Khuntia, J.R, Khatua K. K	Apparent shear in compound channels with non-uniform flow	River Flow 2020	Proceedings of the 10th Conference on Fluvial Hydraulics (Delft, Netherlands, 7-10 July 2020) (1st ed.). CRC Press. <a href="https://doi.org/10.1201/b22619">https://doi.org/10.1201/b22619</a>
29.	Kamalini Devi, Bhabani Shankar Das, Jnana Ranjan Khuntia and Kishanjit Kumar Khatua	Discharge Estimation in Compound Channels Having Narrowing and Enlarging Floodplains	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019,</i> Department of Civil Engineering Osmania University, Hyderabad- 500007
30.	Jnana Ranjan Khuntia, Kamalini Devi, Kishanjit Kumar Khatua and Somesh Jena	Velocity and Turbulence Distribution in Unsteady Open Channel Flows Through an Emergent Rigid Stems	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019,</i> Department of Civil Engineering Osmania University, Hyderabad- 500007
31.	Bhabani Shankar Das, Kamalini Devi, Jnana Ranjan Khuntia and Kishanjit Kumar Khatua	Velocity Distribution in A Compound Channel With Diverging Floodplains	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal	<i>December 18-20, 2019,</i> Department of Civil Engineering Osmania University, Hyderabad- 500007

			Engineering)	
32.	Ashish Singh, Astd. Prof. Sanat Sahoo and Assoc.Prof. Kishanjiit Khatua	Assessment of Various Parameters Affecting the Drainage Discharge Over A Plain Terrain	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019,</i> Department of Civil Engineering Osmania University, Hyderabad- 500007
33.	Nirjharini Sahoo, Kishanjit Kumar Khatua and Ramakar Jha	Study on The Variation of Distribution of Velocity in Accordance With Differential Roughness in an Compound Open Channel	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019,</i> Department of Civil Engineering Osmania University, Hyderabad- 500007
34.	Nirjharini Sahoo, Kishanjit Kumar Khatua and Ramakar Jha	Study on The Variation of Distribution of Velocity in accordance with Differential Roughness in a Compound Open Channel	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019,</i> Department of Civil Engineering Osmania University, Hyderabad- 500007
35.	Satish kumar, Kishanji Kumar Khatua	Discharge measurements and prediction of flow parameters using CES for meander river koina: a field case study	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019,</i> Department of Civil Engineering Osmania University, Hyderabad- 500007
36.	Siprarani Pradhan, Kishanjit Kumar Khatua	Identification of critical depth and lateral flow regime in asymmetrical rough compound channel	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019,</i> Department of Civil Engineering Osmania University, Hyderabad- 500007
37.	Hariom goutam, subham Yadav, Kishanjit Kumar Khatua	Flow characteristics in open channel with submerged flexible vegetation	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal	<i>December 18-20, 2019,</i> Department of Civil Engineering Osmania University, Hyderabad- 500007

			Engineering)	
38.	Firoz shaik, Kishanjit Kumar Khatua	Velocity and Reynolds stress distribution in steady open channel flow	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019, Department of Civil Engineering Osmania University, Hyderabad- 500007</i>
39.	Owk Prasad, Kishanjit Kumar Khatua	Bed load effects on flow resistance in meandering open channel flow	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019, Department of Civil Engineering Osmania University, Hyderabad- 500007</i>
40.	Subham Yadav, Hariom Goutam, Kishanjit Kumar Khatua	Turbulence statistics of flow on degraded channel bed of sand	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019, Department of Civil Engineering Osmania University, Hyderabad- 500007</i>
41.	Asutosh priyadarsan, Kishanjit Kumar Khatua	Large eddy simulation of a sinuous open channel flow	Hydro-2019 International Conference, (24th International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>December 18-20, 2019, Department of Civil Engineering Osmania University, Hyderabad- 500007</i>
42.	Devi K, Dash B.S., Khuntia J.R and Khatua K.K.	An analytical solution for non-uniform flow in compound channels	River Flow 2018: IRSTEA, Lyon, France Organised by International Association of Hydraulic Research	<i>Article no 06041 E3S Web Conf. Volume 40, 2018 River Flow 2018 - Ninth International Conference on Fluvial Hydraulics</i>
43.	Das B. S, Sebastien Proust, K. K. Khatua & K. Devi.	Flow distribution in diverging compound channels using improved independent subsection method	River Flow 2018: IRSTEA, Lyon, France Organised by International Association of Hydraulic Research	<i>Article no 05078 E3S Web Conf. Volume 40, 2018 River Flow 2018 - Ninth International Conference on Fluvial Hydraulics</i>
44.	Pradhan A , Khatua K. K. & Dash.S.S	An analytical solution for flow estimation for meandering compound channels	River Flow 2018: IRSTEA, Lyon, France Organised by International Association of Hydraulic Research	<i>Article no 06043 E3S Web Conf. Volume 40, 2018 River Flow 2018 - Ninth International Conference on Fluvial Hydraulics</i>

45.	Khuntia J. N. , Sebastien Proust, K. K. Khatua & K. Devi	Depth-averaged velocity and bed shear stress in unsteady open channel flow over rough bed	River Flow 2018: <i>IRSTEA, Lyon, France Organised by International Association of Hydraulic Research</i>	<i>Article no 05071 E3S Web Conf. Volume 40, 2018 River Flow 2018 - Ninth International Conference on Fluvial Hydraulics</i>
46.	Sahoo, N., Khatua K. K. and Jha R	Study on The Variation of Distribution of Velocity in Accordance with Differential Roughness In a Compound Open Channel	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
47.	Sahoo,S., Khuntia J R, Devi K and Khatua K. K.,	Energy and Momentum Correction Coefficients in Compound Open Channel Flow	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
48.	Das B.S., Devi K, Khuntia J R, and Khatua K. K.,	Flow distributions in compound channel with diverging floodplains	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
49.	Das L, Khatua K. K.,and Das B.S.,	Experimental and Numerical Analysis of Boundary Shear Stress in Non-Prismatic Compound Channel	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
50.	Kamalini Devi, Das B.S., Khuntia J R, and Khatua K. K.,	Boundary shear stress distributions in compound channels having narrowing and enlarging floodplains	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
51.	Khuntia J R., Kamalini Devi, Das B.S., and Khatua K. K.,	Turbulence characteristics in a vegetated open channel under unsteady flow conditions	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
52.	Priya Shejule, Khuntia J R, and Khatua K. K.,	Calibrating Coefficients of Emerged Vegetative Open Channel Flow	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
53.	Kumar S, Pradhan A and Khatua K. K.,	Assessment of Friction Factor for Straight Channels Under No-Load Condition	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
54.	Khatua K. K.,and Satish Kumar	Flow patterns and their impact on bank protection work in the	HYDRO 2018, (23rd International Conference on Hydraulics, Water	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>

		meander river Koina	Resources and Coastal Engineering)	
55.	<i>Chandra S. C., Pradhan A, Handique A and Khatua K. K.,</i>	Discharge Estimation in Compound Meandering Channels based on Energy Concept	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
56.	Handique A, Pradhan A, Chandra S.C.,and Khatua K. K.,	Depth-Averaged Velocity Distribution in a Meandering Compound Channel using Calibrating coefficients	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
57.	Biswal S, Naik B, Khatua K. K.,	Rainfall Runoff Studies Of Brahmani River Basin	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
58.	Pradhan S., and Khatua K. K.,	Momentum and Kinetic Energy Coefficients in Symmetrical Wide Trapezoidal Compound Cross Section Flumes	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
59.	Pradhan, S, Pradhan A, and Khatua K. K.,	Behaviour of Three-Dimensional Turbulent Intensity in Non-Prismatic Compound	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
60.	Palai D.P.,, Khatua K. K.,	Flow Distribution In Diverging Compound Channel Using LES Models	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
61.	Satapathy A, Naik B, Behera M and Khatua K. K.,	Experimental study on sediment transport in a meander affected straight channel	HYDRO 2018, (23rd International Conference on Hydraulics, Water Resources and Coastal Engineering)	<i>Dec 19-21, 2018 Civil Engineering Department NIT Patna , INDIA</i>
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152.	<i>Khatua K.K.. N. Sahu. And Patra K. C.</i>	Sinuosity dependency in boundary shear distribution modeling for meandering compound channels.	<i>Hydro-Science and Engineering</i>	<i>IAR and IIT Madras, (ICHE 2010), 2 - 5 August 2010.</i>
153.	<i>Khatua K.K.. and Patra K. C</i>	Apparent shear stress and boundary shear stress distribution in compound channels of higher width ratio.	<i>Advances in Fluid Mechanics</i>	<i>September, 2010, AFM-2010, Portugal, Lisbon</i>
154.	<i>Khatua K.K. and Patra K. C.</i>	Roughness evaluation for meandering channels.	<i>Advances in Fluid Mechanics</i>	<i>September, 2010, AFM-2010, Portugal, Lisbon</i>
155.	<i>Khatua K.K and Patra K. C..</i>	Overbank flow condition in a compound channel.	<i>International conferences in ACE</i>	<i>December, 2010, Trivandrum, India</i>
156.	<i>Sahu M, Khatua K.K., Singh P.</i>	Prediction of development length for low Reynolds number flow in pipe Using ANN.	<i>4th international conference on "Fluid mechanics and fluid power" FMFP</i>	<i>Proceeding of 4th international conference on "Fluid mechanics and fluid power" FMFP held during December 16-18, 2010.</i>
157.	<i>Sahu M, Khatua K.K., Singh P.</i>	Numerical study of entrance length in pipe for laminar flow.	<i>Thirty Seventh National and Fourth International Conference on Fluid Mechanics and Fluid Power</i>	<i>Proceeding of Thirty Seventh National and Fourth International Conference on Fluid Mechanics and Fluid Power Held during December 16-18, 2010, IIT Madras, Chennai, India.</i>
158.	<i>Sahu M, Khatua K.K., Singh P.</i>	Developed Laminar Flow in Pipe Using Computational Fluid Dynamics.	<i>7th international R &amp; D conference on development and management of water and energy resources</i>	<i>Proceeding of 7th international R &amp; D conference on development and management of water and energy resources Held during 4-6 February 2009</i>

				<i>Bhubaneswar, India.</i>
159.	<i>Khatua K.K. and Patra K.C.</i>	Evaluation of Roughness Coefficients in a Meandering Open Channel Flow.	<i>7th international R &amp; D conference on development and management of water and energy resources</i>	<i>Proceeding of 7th international R &amp; D conference on development and management of water and energy resources Held during 4-6 February 2009 Bhubaneswar, India.</i>
160.	<i>Khatua K.K. and Patra K.C.</i>	Numerical evaluation of boundary shears distribution in meandering channels.	<i>5th MJS International Conference at MJS</i>	<i>Proceeding of 5th MJS International Conference June 17-19, 2009, M.J.T., Cambridge, MA, USA.</i>
161.	<i>Khatua K.K. and Patra K.C.</i>	Variation of roughness coefficients in meandering channels.	<i>The National Conference Advances in Environmental Engineering</i>	<i>Proceeding of The National Conference Advances in Environmental Engineering Held during 14-15, Nov -2009, at NIT, Rowkela.</i>
162.	<i>Khatua K.K. and Patra K.C.</i>	Apparent shear stress in compound channels.	<i>HYDRIC 2009</i>	<i>Proceeding of HYDRIC 2009, CWPRS, Pune. held during Dec 2009</i>
163.	<i>Khatua K.K. and Patra K.C.</i>	Roughness coefficients in two stage compound river section.	<i>Institution of Engineers India (IEI)</i>	<i>India- Jan.2008, Orissa state center, (Obtained gold medal for the best paper)</i>
164.	<i>Khatua K.K. and Patra K.C.</i>	Flow distribution in meandering compound channel flow.	<i>Hydro-2008</i>	<i>Proceeding of Hydro-2008, held during December.2008, at SVNIT, Jaipur, India.</i>
165.	<i>Khatua K.K. and Patra K.C.</i>	Interaction of Flow in Meandering and Straight Channel with Floodplains	<i>International Conference Hydro-Vision</i>	<i>July 14-18, 2008, California, USA.</i>
166.	<i>Khatua K.K. and Patra K.C.</i>	River and Flood plain Hydraulics.	<i>Institution of Engineers India (IEI)</i>	<i>India- Jan.2007, Orissa state center, (Obtained gold medal for the best paper).</i>
167.	<i>Khatua K.K. and Patra K.C.</i>	Roughness characteristic in two stage meandering and straight compound channels.	<i>CEAC-2007, 9-11</i>	<i>March, 2007, M.M. Engineering College Mullana, Ambala</i>
168.	<i>Khatua K.K. and Patra K.C.</i>	Boundary shear stress distribution in meandering compound channel flow.	<i>5th Australian Stream Management Conference</i>	<i>Albury, NSW, Australia on 22-25 May 2007.</i>
169.	<i>Khatua K.K. and Patra K.C.</i>	A practical method to predict flow for a compound river section.	<i>Hydro-2007</i>	<i>Proceeding of Hydro-2007 Held during December.2007, at VNIT, Surat, India.</i>
170.	<i>Khatua K.K. and Patra K.C.</i>	Selection of Interface Plane in the Assessment of Discharge in Two Stage Meandering and Straight Compound Channels.	<i>Conference on Fluvial Hydraulics (IAHR)</i>	<i>September 6-8, 2006-(River Flow-2006), Lisbon.</i>
171.	<i>Khatua K.K. and Patra K.C.</i>	Boundary shear stress distribution in compound channel flow.	<i>Hydro-2006</i>	<i>Proceeding of Hydro-2006 Held during December 2006, at Pune, India.</i>
172.	<i>Khatua K.K. and Patra K.C.</i>	Energy Loss and Discharge Estimation in Two Stage Meandering and Straight Compound Channel.	<i>International Perspective on Environmental &amp; Water Resources</i>	<i>Dec. 2006, New Delhi, India held by EWRI of American Society of Civil Engineers (ASCE) and IIT Kanpur.</i>
173.	<i>Khatua, K.K. and Patra, K. C.</i>	Energy loss in two stage meandering and straight compound channels.	<i>Hydro-2005</i>	<i>Proceeding of Hydro-2005 Held during December.2005, Tumkur, Karnataka</i>
174.	<i>Khatua, K.K. and Patra, K. C.</i>	Management of High Flood and Drainage	<i>49th Annual session of IEI (India)</i>	<i>2nd Feb. 2004, Orissa state center, (Obtained 2nd prize in</i>

		problems of Mahanadi river at Delta.		<i>Civil Engineering Division)</i>
175.	<i>Khatua K.K., Senapati, M.R. and Mohapatra, B.R.</i>	Environmental impact assessment and Disaster Management of Cyclones in coastal belt.	<i>National Convention on Disaster management in Environment Engineering</i>	<i>Proceeding of National Convention on Disaster management in Environment Engineering R.E.C. Rourkela (Orissa) during 1-3, Feb, 2002</i>
176.	<i>Khatua, K.K. and Panigrahi, S.</i>	Flood and Cyclone in Coastal Orissa.	<i>International Conference on Disaster Management</i>	<i>Proceeding of International Conference on Disaster Management Held at BITS Pilani Rajasthan, March 5-7 2001, pp 35 to 45</i>
177.	<i>Khatua, K.K., Panigrahi, S. and Rout, S.K.</i>	Influence of Coriolis force on atmospheric disturbances including Cyclogenesis.	<i>38th Annual Convention and meeting on National Hazard and Disaster Management</i>	<i>Proceeding of 38th Annual Convention and meeting on National Hazard and Disaster Management pp 1-30 to 1-39 December 18-20, 2001. Visakhapatnam.</i>
178.	<i>Khatua, K.K. and Dash R.N.</i>	Management of Super Cyclone and flood in Orissa.	<i>International Conference on Disaster management environment management</i>	<i>Proceeding of International Conference on Disaster management environment management November 18-20, 2000, pp 581 to 594 Organized by IET, Chandigarh.</i>
179.	<i>Khatua K.K., Senapati, M.R. and Benerji, J.</i>	Heavy metal sludge management and pollution control.	<i>Environmental management global issue</i>	<i>Nov. 2000, Institution of Engineers (India), Bhubaneswar</i>
180.	<i>Khatua, K.K. and Mahakul, B.</i>	Flood in Mahanadi delta stage-II Area -A case study.	<i>National seminar on Disaster Management</i>	<i>Proceeding of National seminar on Disaster Management 12-13, Nov, 1999, held at U.C.E. Burla (Orissa). pp 1-30 to 1-3</i>

### OUTREACH/KEYNOTE/EXPERT LECTURES / TECHNICAL COMMITTEE

- **Depth averaged velocity for unsteady open channel flow** keynote speech in the 2<sup>nd</sup> International Conference on River Corridor, Research & Management **RDWRI** organized by Jamia Millia Islamia, Jamunabad, May, 2022 – 1<sup>st</sup> June 2022
- **Finite Difference Method and its application to Water Resources Engineering** keynote speech in the **online e-STC on "Advanced Modelling and Innovations in Water Resources Engineering and Management"** at NIT Hamirpur (AMI-WREM : 4<sup>th</sup> March 2022)
- **Experimental investigations of unsteady flow over rough bed channels** "Key note speech delivered at HYDRO 2021 ( 23-25, Dec 2021) held at SVNIT Surat, India, , on 24/12/2021,
- **"An Introduction to Finite Difference Method and its application to Water Resources Engineering "** Expert lecture on 03 Mar 2021 e-STC on "Advanced Computational Techniques in Water Resources Engineering & Management (ACT-WREM-2021)" from 01 to 05 March 2021
- **Expert talk on TEQIP-III BPUT, ODISHA (ATU) Sponsored workshop on Recent Technology Trends in Construction and Civil Engineering (RTTCCE – 2020)** organised by Department of Civil Engineering, CAPGS, on 28/08/2020,

- **EVALUATION OF COMPOSITE ROUGHNESS IN OPEN CHANNELS** Expert lecture in webinar delivered on 13th October 2020, placement cell GPBBSR, Govt. Polytechnic, Bhubaneswar
- **"Flow modelling for converging and diverging compound open channels"** Five days International Virtual Workshop event on Climate Change Impact on Water Resources Systems (CCIWRS-2020) conducted by National Institute of Technology Silchar from 28th September to 02nd October 2020.
- **"Flood modelling for open channels"** keynote speech International online faculty development program on recent advances in Civil Engineering on 11/06/2020 organised by the Vidya Jyothi Institute of Technology, Chilkur Balaji Road, Hyderabad, INDIA
- **"Recent development in Water Resources Engineering"** expert lecture by TEQIP-III seminar at Chaibasa Engineering College on 11/02/2020, Chaibasa, Jharkhand, INDIA
- **"Analytical method for Depth averaged velocity and boundary shear distribution in simple and compound channels"** Invited Key note Speaker in the HYDRO-2019, International Conference organized by Indian Society of Hydraulics, (during, December 2019), held at Osmania University, Hyderabad INDIA
- **"Water conservation and future research avenues in water related issues"** Invited Speaker on personality development of students on 01.05.2019 at VSSUT, Burla, INDIA
- **"Flow estimation in non-prismatic compound channels"** Invited Key note Speaker in the HYDRO-2018, International Conference organized by Indian Society of Hydraulics, (during, December 17<sup>th</sup> 2018), held at NIT Patna, INDIA
- **"River Flow Modelling-using multilinear Regression Analysis"** Invited Speaker in the QIP Short Term Course on Recent Advances in Hydrological Applications (RAHA-2018 during, 28<sup>th</sup> May – 9<sup>th</sup> June, 2018), presented on 2<sup>nd</sup> June, 2018, VSSUT, Burla, INDIA
- **"Flow Computation in a River Channel"** Invited Speaker and Chief guest at the Seminar, 28<sup>th</sup> March 2017, SYNERGY Institute of Engineering and Technology, INDIA
- **"Application of regression analysis in flow modeling"** Invited Speaker and Chief guest at the Seminar, February 2017, EATM, Bhubaneswar, INDIA.
- **"Prediction of mixing layer in symmetric and asymmetric compound channels"**. International conference on fluvial hydraulics, River flow, July, 2016, St. Louis, USA
- **"Flow Modeling For Compound Channels With diverging Floodplains"** June 2016, University, of Leeds, UK –research outputs towards the ongoing UKIERI research projects..
- **"An Introduction to Finite Difference Method and its application to Water Resources Engineering"** Invited Speaker at the Short term course, March 2016, NIT Silchar, INDIA
- **"Flow Modeling For Compound Channels With Converging Floodplains"** 05 January 2015, Loughborough University, UK –Invited Speaker In The International Symposium On Compound Channel Flow.
- **"Numerical modeling for high stage channels"** Brain Storming session on "River Engineering Solutions and their implementation strategies" CWRS, Department of Civil Engineering, NIT, Patna (9-10 July 2015)
- **"River modeling and flow measurements"** April 2015, BITS, Mesra, Ranch, INDIA
- **"River and floodplain interactions"** March 2015, Gujarat Technological University, Ahmadabad, INDIA
- **"River flow modeling for high stage rivers"** January 2015, NIT Surathkal, Karnataka, INDIA



- **“Flow modeling for River and its floodplain”** University of South Carolina, Columbia, USA during July, 2013
- **“Evaluation of Roughness Coefficients for Open Channel Flow”**. International Conference Hydro-Vision, July 23-26, 2013, Colorado, USA.
- **“Composite roughness for rough compound channels”**. International Conference on Fluvial Hydraulics, River flow, Sept. 3-5, 2014, Lausanne, Switzerland
- **Stage discharge prediction for highly sinuous meandering channels**. International conference on fluvial hydraulics, River flow, Sept 3-5, 2014, Lausanne, Switzerland
- **Energy and Momentum coefficients in a compound channel flow with wide floodplains**. Int. Conf. in Advances in Fluid Mechanics, AFM-2012, 26 - 28 June, 2012. Split Croatia.
- **Apparent shear stress and boundary shear stress distribution in compound channels of higher width ratio**. Presented in Int. Conf. in Advances in Fluid Mechanics, September, 2010, AFM-2010, Portugal, Lisbon
- **Numerical evaluation of boundary shears distribution in meandering channels**. The Paper is accepted and presented in the proceedings of 5th MIT International Conference at MIT, June 17-19, 2009, M.I.T., Cambridge, MA, USA
- **“Management of flood and super cyclone in orissa”**, Dec-2000, *The Institution of Engineers, I N D I A, Rourkela local chapter, Orissa,*
- **“Interaction between the river and floodplain”** , *The Institution of Engineers, I N D I A, Rourkela local chapter, Dec-2008, Orissa*
- **“Complexity of flow prediction in two stage meandering compound river sections”** *AICTE/MHRD Staff development program on Natural Hazards-preparedness and mitigation during 15-28, December 2008, at NIT, Rourkela*
- **“Leadership & team dynamics”** by *TEQIP workshop on pedagogy for engineering education, 9-11, January 2009, at NIT, Rourkela*
- **“Highway drainage”** *AICTE-MHRD Short-term Course on Pavement Engineering and Road Safety March 2-15 , NIT, Rourkela 2009*
- **“Effect of earthquake on dams”** *Training program of practicing engineers in earth quake resistance design and construction held during 17-26, july, 2010, NIT, Rourkela 2009.*
- **“River and floodplain”** , *To the Engineers of Water Resources Engineering department Government of Odisha through a Workshop held at VSSUT Burla, Nov-2011, Orissa*
- **“Water shed management-1”** , *To the Engineers through NEREGA held at NIT Rourkela, March, 2012*
- **“Water shed management-2”** , *To the Engineers through NEREGA held at NIT Rourkela, May, 2012*
- **“Flow measurements and modeling in Water resources Engineering:”** ( at least 10 lectures of total 20 hours) *Organised at Civil Engineering Department, NIT Rourkela, September 23-28 2012*
- **“Embedded Electronics System for Water resources Engineering:”** (at least 02 lectures of total 04 hours) *Organised at Civil Engineering Department , NIT Rourkela Jointly with Water Resources Engg Department, Govt. of Odisha and NIT Rourkela, during March 2013*
- **“Advances in Water resources Engineering:”** (at least 10 lectures of total 20 hours) *Organised at Civil Engineering Department, NIT Rourkela, during May 2012*
- **Workshop on Case studies on real time hydrological modeling for Ganga-Brahmaputra basins** (at least 01 lectures of total 02 hours) *-23-25, september, 2010, Civil Engineering department, NIT Rourkela, I N D I A*
- **“WATER-EAT (Education and Training) - 2009”** (01 lectures of total 02 hours), *on 27-28th February, 2010 at Civil Engineering department, NIT Rourkela, I N D I A*

## **RESEARCH PROJECTS IN PROGRESS/ HANDLED**

- “Depth averaged velocity for unsteady open channel flow” during Dec 2021-Dec 2024 ( Approx. Rs.68.55 lakhs) SCIENCE& ENGINEERINGRESEARCHBOARD (SERB), Department of Science & Technology, Government of India. **PI-Prof. K.K.Khatua**
- “Prédire les écoulements dans les plaines d’inondation dont l’occupation du sol varie, lors de crues extremes “ Flo Res Project funded by Campus France. it is collaborated with Dr. K.K.Khatua of NIT Rourkela and 12 other Universities of Europe (Project ANR-14-CE03-0010 FLOWRES from 1 st January 2015 to 31<sup>st</sup> Decembre 2018)
- “ Capacity Building for Dam Safety area” Central Water Commission, New Delhi ( financed by World Bank-the fund likely to be sanctioned soon in March/ April-2017 and will continue for next three years) (Rs. 352.00lakhs) **PI-Prof. K.C. Patra Co-PI-Prof. K.K.Khatua**
- “Flow modeling for compound channels with non-prismatic floodplains” March, 2014-August 2017 granted from British Council , UK and UGC, India (Total around Rs. 57.00 lakhs)-**Indian PI-Dr. K.K.Khatua and UK PI Prof. Nigel Wright, Dean of Research, University of Leeds, UK**
- “Flow Analysis of Compound Channels with Roughened floodplains”Feb 2013-March 2017 granted from the DST, Govt. of India ( Rs. 25.00 lakhs) **PI-Dr. K.K.Khatua**
- “Turbulent flows and riparian vegetation induced drag for river flooding ” Collaborative sponsored research work with Prof Koji Shiono of Loughborough University ( Main PI) (This is part of dissemination of the EPSRC grant (EP/K004891/1) of amount £319,404 ( awarded to Loughborough University) duration of project was between Jan 2013 – Apr, 2016, I have been invited and My PhD student did experimental work for three months with Prof Koji Shiono of Loughborough University.
- “Sinuosity dependency in stage-discharge boundary shear distribution modeling for meandering compound channels” during June 2009-2012 DST, Govt. of India ( Rs. 29.21 lakhs) **PI-Dr. K.K.Khatua**
- “Experimental and Numerical study on application of tuned liquid damper for controlling structural vibration”2011-2012 DST, Govt. of India ( Approx. Rs.30.00 lakhs) **Co-PI-Dr. K.K.Khatua**
- “Numerical and Experimental Flow Analysis of Meandering Channel By Varying Roughness and Sinuosity”2011-2014 granted from Institution of Engineers ( INDIA) (Rs. 01.00lakhs) **Mentor-PI-Dr. K.K.Khatua**

## **CONSULTANCY PROJECTS IN PROGRESS/ HANDLED**

- “Flood Plain Zoning and flood forecasting of river Mahanadi near Cuttack city and adjoining villages “ DOWR, Government of Odisha, 02 Feb-02 Agust 2022
- “River bank protection work for the bridge no. 184 over river Koina near Manoharpur-Jaraikela rail route” South Eastern Railway, INDIA, April-June 2018
- “Hydrogeological test at AIR Rourkela and Sambalpur, Odisha”. AIR, Govt. of INDIA
- “Preparation of DPR of Jeera Water Resources Projects”. Water Resources, Govt. of Orissa, INDIA
- “Preparation of DPR of Lower Nagavali irrigation project” Water Resources., Govt. of Orissa, INDIA
- “Study on the proposed diversion works for Bendra and Budhajholianallas in the jamkani and bijahan coal blocks in the sundargarh district, Odisha” GMS Powerpacks Pvt. Ltd. The Multi-Dimensional Technical Consultants, Bhubaneswar , India

## **ORGANISING SHORT TERM COURSE / CONFERENCES / WORKSHOPS / SYMPOSIUM**

- *Coordinator* of a seven days Short-term programme (DST-STUTI) on “Developing skills and knowledge for Civil and Electrical Engineering Researchers through access to cutting edge technology” ( jointly organised by NIT Rourkela and Amity University) at NIT Rourkela, India during 23-29 May 2022
- *Organising Secretary* on International Conference “HYDRO-2020:” Organised at Civil Engineering Department, NIT Rourkela, , INDIA during 26<sup>th</sup> March to 28<sup>th</sup> March 2021
- *Principal Coordinator* of a Self-sponsored Short-term course on “Computer application in Water resources Engineering:” Organised at Civil Engineering Department, NIT Rourkela, , INDIA during 1st October to 6th October 2018
- *Principal Coordinator* of the International Symposium on “River Flow-2016:” Organised at Civil Engineering Department, NIT Rourkela, during February 25 2016
- *Principal Coordinator* of a Self-sponsored Short term course on “Flow measurements and modeling in Water resources Engineering:” Organised at Civil Engineering Department, NIT Rourkela, INDIA during September 23-28 2014
- *Coordinator* of Applied training program on “MIKE-FLOOD and MIKE-BASIN ” Organised at Civil Engineering Department, NIT Rourkela, during 21st -24th January 2014
- *Convener* of Seminar on “Embedded Electronics System for Water resources Engineering:” Organised at Civil Engineering Department , NIT Rourkela Jointly with Water Resources Engg Department, Govt. of Odisha and NIT Rourkela, INDIA during March 2013
- *Principal Coordinator* of a Self-sponsored Short term course on “Advances in Water resources Engineering:” Organised at Civil Engineering Department, NIT Rourkela, INDIA during May 2012
- *Committee member* and Publication chair, International Conference on Structural and Civil Engineering-SCE, Trivandrum, Dec, 2012.
- *Committee member and Publication chair*, International Conference on Structural and Civil Engineering-SCE, Trivandrum, INDIA Dec, 2012.
- *Publication chair*, “International Conference on Structural and Civil Engineering-SCE”, Trivenrum, INDIA, September, 2011.
- *Organising Technical Committee member*, Hydro, 2010, INDIA.
- *Convener of interactive* “Workshop on Case studies on real time hydrological modelling for Ganga-Brahmaputra basins” 23-25, september,2010, Civil Engineering department, NIT Rourkela, INDIA
- *Convener of National Seminar* on “RAF & SM- 2010 (Recent advances in fluid and solid mechanics)”, on 28th March,2009 Civil Engineering department, NIT Rourkela, INDIA
- *Organising secretary of National Workshop* on “WATER-EAT (Education and Training) - 2009”, on 27-28th February,2010 at Civil Engineering department, NIT Rourkela, INDIA
- *Organising secretary of National Workshop* on “Climate Change and Water Resources Management-2008”, on 16th November,2008 at NIT Rourkela, INDIA
- *Member of Local Organising Committee* of “National Conference on Advances in Road Transportation “held at NIT, Rourkela, INDIA during February 12-13,2005
- *Member of Local Organising Committee* of “National Convention on Advances in Geotechnical Engineering “held at NIT, Rourkela during January 23-24,2005

- Member of Local Organising Committee of “National Convention on Emerging Trends in Structural Engineering and Composite Structures” held at NIT, Rourkela , INDIA during November 2-3,2003
- Member of Local Organising Committee of “National Convention on Disaster Management in Environmental Engineering” held at REC, Rourkela, INDIA during February 1-3,2002

### CONTRIBUTION TO STUDENTS WELFARE AND CAMPUS WELFARE

- Chairman, Evaluation and finalisation of Garbage service of Institute, NIT Rourkela
- Secretary of “Campus Community and Worship Committee” NIT Rourkela , INDIA (from 2018-2021)
- Chairman, Mass walk committee in January 2019 for all the staff, students and faculty members (an awareness program conducted by NIT Rourkela, INDIA on “ Unity and health and say no to plastic”)
- Chairman, Mass walk/ Run committee in January 2018 for all the staff, students and faculty members (an awareness program conducted by NIT Rourkela, INDIA to make smart city Rourkela Swachhata and Green )
- Professor in charge of E.A.A., N.I.T.Rourkela , INDIA (from 2014-2017)
- Professor in charge of Computational Water Resources Engg. Laboratory N.I.T.Rourkela , INDIA (Continuing)
- Professor in charge of Hydraulics and Fluid Mechanics Laboratory N.I.T.Rourkela , INDIA (Continuing)
- Professor in charge of Lawns and Gardens., N.I.T.Rourkela , INDIA (from 2005-2014)
- Secretary JSSE, Rourkela Chapter, Orissa , INDIA( Continuing)
- Member of Departmental Purchase Committee, N.I.T.Rourkela , INDIA ( Continuing)
- Member of PG Project evaluation Committee, N.I.T.Rourkela , INDIA ( Continuing)
- Members of some DSC and MSC Committee, N.I.T.Rourkela , INDIA ( Continuing)
- Professor in charge of N.S.S., N.I.T.Rourkela (from 2003-2014)
- Executive member of the IET ( India) Rourkela center, N.I.T.Rourkela , INDIA Member of the Lawns and Garden Committee , N.I.T.Rourkela , INDIA
- Member of the Civil Maintenance Purchase Committee ., N.I.T.Rourkela , INDIA
- Member of Departmental Academic Committee, N.I.T.Rourkela
- Member of the Refrigeration, Water Supply Committee ., N.I.T.Rourkela , INDIA
- Member of Standing Disciplinary Committee, N.I.T.Rourkela , INDIA Co-Vice President of Athletics Association , N.I.T.Rourkela , INDIA from 13/12/2000 to 02/11/2003
- Secretary, N.I.T.Rourkela , INDIA Staff Club from 25/10/2000 to 21/01/2003
- Accompanied long study tour program (for two weeks) , Civil Engineering N.I.T.Rourkela , INDIA students in October 2001
- Hostel Superintendent at J.J.E.T.Cuttack, INDIA in 1997-1998
- Officer in charge of Examination at J.J.E.T.Cuttack, INDIA in 1997-1998
- Officer in charge of sports at J.J.E.T.Cuttack, INDIA in 1997-1998

### VISITS TO FOREIGN UNIVERSITIES RELATED TO THE RESEARCH WORK:

S No	Period of visit		Institute/ country visited	Purpose of visit
	From	To		
1	8th June 2018	8th September 2018	IRSTEA, Lyon, France	Visiting Professor researcher for Collaborative research work in numerical and experimental work on unsteady open channel flow.
2	July 2016		Utah state University, USA	Research discussions, Collaborative research

				program, Laboratory visit.
3	July 2016.		St Lois, USA	River flow 2016 presentations and Missisipi river and related research laboratory visits
4	June 2016		University of Leeds, University of Sheffield, UK	Collaborative research work and Presentation at University of Leeds, University of Sheffield, UK
5	January 2016		DE MONT FORD University UK, And School of Civil Engineering University of Loborough, U.K.	Invited speaker for International Symposium on “ Compound channel” at University of Lobo rough( by Prof. Koji Shiono ,)
6	2014-2016 (proposed under UKIRIE scheme – project approved and funds already sanctioned)	2014-2016 (proposed under UKIRIE scheme – project approved and funds already sanctioned )	School of Civil Engineering University of Leeds, U.K. and School of Civil Engineering University of Birmingham, U.K.	Collaborative research work with Prof. Nigel Wright , Dean of Research University of Leeds, U.K. and Dr. M. Sterling, School of Civil Engineering University of Birmingham, U.K
7	10 Sept. 2014	11 Sept. 2014	Fluvial Hydraulics laboratory, <i>EPFL campus</i> , Lausanne, Switzerland	Research visit
8	05 Sept. 2014	12 Sept. 2014	Lausanne, Switzerland	River Flow-2014 (International Conference by IAHR)
9	August 4, 2013	August 7, 2013	University of District of Columbia, Washington DC, USA	Collaborative research work with Prof. Pradeep K. Behera, Civil Engineering Program Director Department of Civil and Mechanical Engineering University of district of Columbia, Washington, DC 20008
10	August 2, 2013	August 2, 2013	Department of Civil and Environmental Engg, University of South Carolina, Columbia, USA	Collaborative research work with Prof. Jorge D. Abad, Assistant Professor Earth Processes & Environmental Flows group, Department of Civil and Environmental Engineering University of Pittsburgh
11	June, 2013	August 2013	University of South Carolina, Columbia, USA	Collaborative research work with University of South Carolina, USA during June, 2013 to August, 2013
12	23, June, 2012	26, June, 2012	Split, Croatia	International Conference on Advances in Fluid Mechanics 2012
13	15 Sept. 2010	17 Sept. 2010	Algrave, Portugal	International Conf on Advances in Fluid Mech 2010
14	June 20, 2009	June 24, 2009	College of Charleston, South Carolina, USA	Research visit
15	June 17, 2009	June 19, 2009	M.I.T., Cambridge, MA, USA.	International Conference at MIT
16	24 February 2006	26 February 2006	Queen’s Marry University of London, U.K.	Research visit

17	22 February 2006	24 February 2006	School of Civil Engineering University of Lobarough, U.K.	Research visit
18	20 February 2006	25 February 2006	School of Civil Engineering University of Nottingham, U.K.	Research visit
19	14 February 2006	28 February 2006	School of Civil Engineering University of Birmingham, U.K.	Research visit

### **SHORT-TERM/REFRESHER COURSES ATTENDED**

- Course on “Adams completion and co-completion” for two weeks (Dec.18-31, 1999) held at R.E.C. Rourkela, INDIA
- Training on “Remote sensing and GIS for resources and management” for two weeks (Jan14-25, 2002) held at KRRC, Surathkal, Karnatak, INDIA
- Training on Advanced Technologies in water resources and Environmental Management. Held at I.I.T. Bombay, INDIA during (May06-10, 2002)
- Short Term Course under C&P on “Windows, MS-Office and C++” in the department of Computer Science Engineering and application, N.I.T. Rourkela, INDIA (From March 04, 2003-April 18, 2003)
- Course on Integrated Water resources Management. Held at I.I.T. Bombay, INDIA during (Nov.22-26, 2004)
- Course on Advanced Water & Waste Water Treatment Technologies and Modelling Techniques. Held at I.I.T. Bombay, INDIA during (Nov. 29-Dec.03, 2004)
- Course on “Appropriate Technology for Cyclone resistant Buildings (Dec.20-24, 2004) held at C.E.T, Bhubaneswar, INDIA
- Completed A short course on IT for energy efficient Buiding Design ,16-19, May 2005 at IIT, Gochiwalli, Hyderabad(AP), INDIA
- Completed a Course on Erosion and Sedimentation of River Beds. Held at I.I.T. Kharagpur, INDIA, During (Nov. 21-26, 2005)
- Completed two weeks Pedagogy in engineering education Held at Staff Engineering College of India, JET (INDIA), Gochhiwali, Hyderabad, INDIA, During (October, 2008).
- Completed one weeks “Design and Analysis using FEM, X-FEM and Mesh free methods” Mechanical and Industrial Engineering Department, IIT Roorkee, During (12-16, July, 2010).
- Completed one weeks “Isotope techniques in water resources engineering” Isotope center, CWRD, Kozikode, KERALA, During (July, 2011).

### **MEMBERSHIP IN THE CORPORATE BODIES**

<i>Sl. No</i>	<i>Name of the Professional Body</i>	<i>No.</i>	<i>Membership Type</i>
1.	Fellow of The Institution of Engineers (India)	F 117176-5	Fellow
2.	Indian Association of Hydrologist (IAH)	LM – 1524	Life Member
3.	Indian Water Resources Society (IWRS)	LM-08-7008	Life Member
4.	Indian Society for Technical Education (ISTE)	LM – 29849	Life Member
5.	Fellow of the Indian Society for Hydraulics (ISH)	LM – 614	Fellow
6.	Indian Association of Remote Sensing	-----	Life Member

### **TECHNICAL REPORTS/ REVIEW ARTICLES:**

- “Hydro geological survey at Sambalpur Durdarsan and Rourkela Radio station” Technical Report Submitted to Executive engineer, Radio station, Bhubaneswar.
- “Sinuosity dependency in stage-discharge boundary shears distribution modeling for meandering compound channels” Technical Report Submitted to DST, Govt. Of India in 2013.
- “Numerical and Experimental Flow Analysis of Meandering Channel By Varying Roughness and Sinuosity” Technical Report Submitted to IET ( India) in 2012
- “Study on the proposed diversion works for Bendra and Budhajholianallas in the jamkani and bijahan coal blocks in the sundargarh district, Odisha” Technical Report submitted to GMS Power packs Pvt. Ltd in 2012

### **REVIEWED/ AUTHORED BOOKS/ REPORTS/ PROCEEDINGS**

- “Engineering Mechanics”, Timoshenko and Young, Tata Mc. Graw Hill -Reviewed
- “Engineering Hydrology”, Subramanya, Tata Mc. Graw Hill -Reviewed
- “Embedded Electronics System for Water resources Engineering” -Reviewed
- “Advances in Water resources Engineering:” - Edited/ Authored
- “Case studies on real time hydrological modelling for Ganga-Brahmaputra basins”- Edited/ Authored
- Recent advances in fluid and solid mechanics”- Edited/ Authored

### **LIST OF SUBJECTS TAUGHT (GRADUATE LEVEL)**

1. Engineering Mechanics
2. Strength of materials
3. Fluid Mechanics
4. Water Resources Engineering.
5. Computational Fluid Dynamic
- 6 Engineering Drawing and Graphics
7. Building Material and construction
8. Ground water Engineering.
9. Fluid Mechanics laboratory

### **LIST OF SUBJECTS TAUGHT ( POSTGRADUATE LEVEL)**

1. Hydrology and Hydraulics of surface and sub surface water
2. Open Channel Flow.
3. Computational Fluid Dynamic
4. Hydraulic Structures.
5. Hydraulics and Hydrology Laboratory
6. Computational Hydraulics and Hydrology
- 7 River Hydraulics and Flow measurements
- 8 Computer application to Water Resources Engineering



**Place: NIT Rourkela, INDIA  
(Prof.K.K.Khatua)**

**Dated 20-July-2022**