

## Summary Sheet

Updated 28.5.2018

**Name: Deepak Khare**

**Date of Birth:** 14<sup>th</sup> November 1963

### **Educational Qualifications**

B.E.	Civil Engg.	SGSITS (DAVV), Indore	1984	79.88% (I Div. with Distn).
M.E.	(Irrigation & WR)	SGSITS (DAVV), Indore	1988	75.20% (I Div. with Distn)
Ph.D.	(Civil-Water Resources)	UOR (IIT), Roorkee	1994	--

### **Employment Details.....(Around 33 years' experience)**

Professor	April, 2008-Contd	IIT Roorkee	w.e.f. 15 April, 2008
Associate Professor	2001-April, 2008	IIT Roorkee	6 Yrs 8 Months
Lecturer, Sr. Lect., Asstt.Prof.	1985-2001	SGSITS Indore	16 Yrs 2 Months

### **Area of Interest:**

Water Resources Planning & Management, Ground Water Modelling, Rainwater Harvesting and Watershed Management, Rural and Urban Water Management, Water Resources Structures, Climate Change

<b>Publications</b>	<b>International</b>	<b>National</b>	<b>Total = 208</b>
Journals	85	22	107
Seminar/Conference	55	46	101

### **Academic Activities:**

**Teaching:** UG (Till 2001) and PG courses in Water Resources Engineering

**Ph.D.** **Awarded** **=18**

**Under Progress** **=08**

**M.Tech. Thesis (Guided)** **=90**

**Under Graduate Projects (Guided)** **=04**

### **Honors and Awards**

#### **National Awards:**

- (i) **"Career Award"** by AICTE New Delhi for Young Teachers, 1995
- (ii) **"U.P. Government National Award"** by ISTE New Delhi, 2002
- (iii) **"Hari Om Ashram Trust award"** by UGC, New Delhi, 2004.
- (iv) **"JAL NIRMALATA PURASKAR"** by IWWA, 2018

#### **Other Awards:**

- (v) **"Outstanding Teacher's Award-2014"** by IIT Roorkee
- (vi) **"Global Water Leadership Award"** 2016 on "World CSR Day" by World CSR Congress.
- (vii) **Distinguished Scientist-Water Resources, Venus International Foundation 2016**
- (viii) **UTTRAKHAND EMINENT ENGINEER AWARD** instituted by to The Institution of Engineers (India), Uttarakhand State Centre (UKSC)..(Declared 15 Sep., 2017)
- (ix) *Principal Member*, Sectional sub-committee of Bureau of Indian Standards, New Delhi for standard on "Water Harvesting and Catchment Area Treatment".
- (x) *Star Performer*, IIT Roorkee, (02 times) in 2003-2004 and 2004-2005

### **Research and Consultancy:**

R & D Projects-	:09 (Completed)	01 (In Progress): 146.35 Lacs
Consultancy Projects	:25 (Completed)	03 (In Progress): 858.30 Lacs

### **Courses/Seminars Workshops- Co-ordinated/Organised (42+08)=50**

**Refresher Courses/ Training Programme Organized : 42**

**Seminars/Workshops Organized : 08**

### **Administrative and other Responsibilities**

1. Head of Department of W.R.D & M. from 1.1.2013 to 29.2.2016
2. Associate Dean of Student's Welfare (Foreign Students') April., 2006 – Dec., 2010
3. Professor In-charge Security- July 2010-Dec., 2010
4. Associate Dean (Mess) Jan., 2008 to July, 2008
5. NSS Coordinator Jan 2011 to Feb, 2012
6. Chief Warden KIH, Jan 2003 to March 2006
7. Sports Advisor Stores, 2006 and 2007
8. Executive Vice President, Indian Water Resources Society (IWRS) 2013-2016 (Feb)
9. National Secretary, Indian Water Resources Society (IWRS) 2003-2005
10. **Warden**, H.Bhabha Hostel, Jan., 1995 to Sep. 2001 (INDORE)

**Visits of other countries:** USA, UK, Germany, Austria, Czech Republic, Australia, Singapore, Malaysia

### **Membership in Professional Societies:**

Life member of IWRS, IWWA, IE (India), ISTE, IAH, ISRS, INCA, IGS, IWA



## About Dr. Deepak Khare

<b>Name</b>	Dr. DEEPAK KHARE
<b>Designation</b>	Professor
<b>Department &amp; Full Address</b>	Water Resources Development & Management Indian Institute of Technology Roorkee ROORKEE 247 667 (Uttarakhand), INDIA
<b>Contacts</b>	+91 -1332 - 285393 (Office) 285152 (Res.) Cell: +91-9412990808 and +91-8979775124  E-mail: <a href="mailto:kharefwt@iitr.ac.in">kharefwt@iitr.ac.in</a> <a href="mailto:kharefwt@gmail.com">kharefwt@gmail.com</a>  Page: <a href="http://www.iitr.ac.in/~WRT/kharefwt">http://www.iitr.ac.in/~WRT/kharefwt</a>
<b>Date of Birth</b>	14 <sup>th</sup> November 1963

### Educational Qualifications

Degree	Field	Board/University	Year	Div.	%	Remark
<b>High. Sec.</b>	Phy. Chem. Maths	M.P. Board	1979	I	78.50	National Schol
<b>B.E.</b>	Civil Engg.	SGSITS, Indore	1984	I	79.88	With Distn
<b>M.E.</b>	Irrigation & WR	SGSITS, Indore	1988	I	75.20	With Distn
<b>Ph.D.</b>	Water Resources	UOR (IIT) Roorkee	1994	-	--	

### Experience

Duration	Institution	Designation	Experience
<b>15 April, 2008 to Till Date</b>	IIT Roorkee	Professor	0 8 Yrs,
<b>21 Sep.,01 to April, 2008</b>	IIT Roorkee	Associate Professor	06 Yrs, 8 Months
<b>Aug.'97 to 20 Sep.,2001</b>	SGSITS,Indore	Assistant Professor	04 Yrs 2 Months
<b>Aug.'91 to July,97</b>	SGSITS,Indore	Sr. Lecturer	6 Yrs
<b>Aug.'85 to July'91</b>	SGSITS,Indore	Lecturer	6 Yrs

**Total: 32 Yrs**

### Area of Interest

Water Resources Planning & Management, Ground Water Modelling, Rainwater Harvesting and Watershed Management, Rural and Urban Water Management, Water Resources Structures, Climate Change

### Honors and Awards

1. Selected by All India Council for Technical Education (AICTE) New Delhi for "CAREER AWARD for Young Teachers Scheme" in 1995
2. Received "U.P. GOVERNMENT NATIONAL AWARD" for the year 2002 by Indian Society for Technical Education (ISTE) New Delhi for outstanding work done in the area of 'Rural Oriented and Socially Relevant Development Activities'.
3. Received the "University Grant Commission (UGC)-Hari Om Ashram Trust award" under "Award to Outstanding Scientists/social Scientists in the field of Interaction between Science and Society" in 2004.
4. Received the "JAL NIRMALATA PURASKAR" for 2016-17, instituted by Indian Water Works Association (IWWA), having its Head Quarters in 50th Annual Convention of IWWA during February 19-21 Panji GOA, 2018.
5. Outstanding Teacher's Award-2014 by IIT Roorkee
6. 'Global Water Leadership Award', 2016 at Mumbai on "World CSR Day" where fifty most Impactful Leaders in Water & Water Management were recognized at the World CSR Congress.
7. Distinguished Scientist-Water Resources, Venus International Foundation 2016
8. UTTRAKHAND EMINENT ENGINEER AWARD instituted by to The Institution of Engineers (India), Uttarakhand State Centre (UKSC)..(Declared 15 Sep., 2017)
9. Principal Member, Sectional sub-committee of Bureau of Indian Standards, New Delhi for standard on Roof Top Rainwater Harvesting "Water Harvesting and Catchment Area Treatment".
10. Star Performer for the year 2003-2004 by IIT Roorkee
11. Star Performer for the year 2004-2005 by IIT Roorkee

### Kathpalia Award (of IIT Roorkee) for Students for M.Tech Thesis

1. In 2013 (Name of Student- Nitin Mishra)
2. In 2014 (Name of Student- Sandeep Kumar)
3. In 2015 (Name of Student- Rasmita Kumari Sahu)
4. In 2016 Best Project Award to Ms. Sakshi Gupta

### Details of BIS STANDARDS (Worked as Principal Member)

- (i) For standard on "Roof Top Rainwater Harvesting-Guidelines" IS-15797:2008 of Bureau of Indian Standards, New Delhi, pp14, May 2008
- (ii) For standard on "Artificial Recharge to Ground Water-Guidelines" IS-15792:2008 of Bureau of Indian Standards, New Delhi, pp14, May 2008

## Administrative and Institution Level Responsibilities

### At IIT Roorkee

1. Head of Department of W.R.D & M. w.e.f 1.1.2013 to 29.2.2016
2. Executive Vice President, Indian Water Resources Society (IWRS) Jan.,2013 to Feb,2016
3. Coordinator NSS Jan 2011- Feb 2012
4. Associate Dean (Foreign Students') Sep., 2007 –Dec 2010
5. Professor Incharge Security- July 2010- Dec 2010
6. Associate Dean (Mess) Jan., 2008 – July, 2008
7. Foreign Students' Advisor April., 2006 – Sep., 2007
8. Sports Advisor April., 2006 and 2007
9. Chief Warden KIH, Jan 2003 to March 2006
10. National Secretary, Indian Water Resources Society (IWRS) 2003-2005
11. Member Guest House Advisory Committee 2003-2005, IITR
12. Member Guest House Restructuring Committee 2005-2006, IITR

### At SGSITS-Indore

13. Warden , H.Bhabha Hostel, Jan., 1995 to Sep. 2001
14. Post Graduate (PG) *Tabulator Exams for 04 Years* (1997-2001) at Indore

R & D Projects- :10 (Completed) 01 (In Progress) :146.35 Lacs

SN	Title of the Project	Year/ Duration	Amt (Lacs)	Funding Agency	PI/CoPI	Remark
<b>Completed</b>						
1	Ground Water Modeling and Conjunctive Use Planning of Surface and Ground Water	1995-1998	6.20	AICTE	Deepak Khare	PI
2	"Performance Evaluation of Filters and its Economic Analysis for Rain Water Harvesting"	2000-2001	0.60	IMC, Indore, MP	Deepak Khare	PI
3	"Conjunctive use Planning and Management of Surface and Ground Water" (In a Canal Command of Tawa Project of M.P.	2000-2003	12.75	MOWR, GOI	Deepak Khare	PI
4	Preparation of DPR on "Creation of Technical Infrastructure for Rainwater Harvesting in India"	2003	0.50	NCP, AICTE	Deepak Khare	PI
5	"Perspective of Rainwater Harvesting in Drought Prone Region of Madhya Pradesh"	2003-2006	10.00	MHRD	Deepak Khare C.S.P. Ojha	PI
6	"Water Security for Hilly Regions of North East Through Rainwater Harvesting"	2005-2008	21.00	MHRD	Deepak Khare	PI
7	Preparation of DPR on "Assessment of Climate Change & Its Impact on Urban Hydrology: Indian Perspective" Under (NCP)	2009	0.40	AICTE New Delhi	Deepak Khare	

	Nationally Coordinated Project					
8	Conjunctive Use Planning of Water Resources Considering Spatial Variation in Cropping Pattern Using Remote Sensing and GIS.	2009-2017	24.00	INCOH, MoWR, New Delhi	Deepak Khare	PI CPI
9	"Assessment of Climate Change & Its Impact on Urban Hydrology: Indian Perspective" Under (NCP) Nationally Coordinated Project	2011-2017	40.00	AICTE New Delhi	Deepak Khare	PI
<b>In Progress</b>						
10	Analysis of dynamic performance of variable speed hydroelectric plants under grid disturbances	2015-2018	31.3	Tehri Hydropower Development Corp. (I) Ltd	Dr. Thanga Raj Chelliah & Deepak Khare.	PI

PI: Principal Investigator      CPI-Co-Principal Investigator

### Consultancy Projects

**25 (Completed)    03 (In Progress)    858.30 Lacs**

SN	Title of the Project	Year/ Duration	Amt (Lacs)	Funding Agency	PI/CoPI	Remarks
<b>Completed</b>						
1	Planning & design of Rainwater Harvesting system at Chambal Fertilizer and Chemical Limited, Kota, Rajasthan	2003-2004	1.65	CFCL Kota	Deepak Khare U.C. Chaube C.S.P. Ojha	PI
2	"Planning & design of Rainwater Harvesting system at ITC Saharnapur". (2005-2006)	2005-2006	1.40	ITC, Saharanpur	Deepak Khare	PI
3	"Hydrology (Surface & Groundwater) and Infiltration Studies" For SASAN Mega Project	2005-2006	7.00	Desein Company Ltd	U.C. Chaube G.C. Mishra Deepak Khare	Mbr
4	"Augmentation of Source and Water Conservation & Recharge-Preparation of DPR's for Dehradun & Almora Cities"	2003-2006	15.00	Uttaranchal Govt.	Deepak Khare P.K. Garg U.C. Chaube	PI
5	"Planning & design of Rainwater Harvesting system for Jalandhar City, Punjab".	2006-2007	3.30	JMC, Jalandhar	Deepak Khare	PI
6	"Conservation Plan for river Kshipra Ujjain (MP)"	2008-2009	68.39	MP Govt.	Arun Kumar AHEC Project Deepak Khare	PI Tm Mbr
7	"Development for Sustainable Basin	2009-	15.0	MP Govt.	Arun Kumar	PI

<b>SN</b>	<b>Title of the Project</b>	<b>Year/ Durat ion</b>	<b>Amt (Lacs)</b>	<b>Funding Agency</b>	<b>PI/CoPI</b>	<b>Remar k</b>
	Planning and Decision Support System for MPWSRP for Two River Basins (Sindh & Tons) in MP"	2011			AHEC Project Deepak Khare	<b>Tm Mbr</b>
<b>8</b>	Assessment of Cumulative Impact of Hydro Electric Projects in Alaknanda-BhagirathiBasin up to Devprayag.	2010-2011	86.00	MOEF	Arun Kumar AHEC Project Deepak Khare	<b>PI Tm Mbr</b>
<b>9</b>	Design and Detailing of Earth Dam and Ash pond for CHHURI Thermal Power Project at KORBA	2011-2013	10.00	DESEIN Private Limited, New Delhi.	Deepak Khare	<b>PI</b>
<b>10</b>	Hydrological Analysis and Design of Hydraulic Structure at River Nandha Choe and Lake at Panchkula	2011-2013	10.00	HUDA Division No. III, Govt of, Panchkula Haryana	Deepak Khare	<b>PI</b>
<b>11</b>	Evaluation Study of irrigation projects sanctioned by NABARD under RIDF	2013-2014	<b>10.00</b>	NABARD, Dehradun	<b>Deepak Khare</b> Ashish Pandey	<b>PI</b>
<b>12</b>	Ground water Potential study and Ground Water survey for deep bore well	2013-2014	<b>8.00</b>	United Spirits Ltd, Bangalore	<b>Deepak Khare</b>	<b>PI</b>
<b>13</b>	"Area Drainage and Hydrological Studies" for the site for 1320 MW (2x660) MW Super-Critical Coal Based Project Adra (Manpura), in PuruliaDistt.	2012-2014	17.00	DESEIN Private Limited, New Delhi.	Deepak Khare	<b>PI</b>
<b>14</b>	Hydro Geological Study of the Area for Dondaicha Thermal Power Project, District Dhule, Maharashtra	2012-2014	8.00	DESEIN Private Limited, New Delhi.	Deepak Khare	<b>PI</b>
<b>15</b>	"Evaluation of the DPR of Suridhar Gram Samuh Pumping Peyjal Yojana"	2014-2015	<b>10.6</b>	SWSM Department of Drinking Water, Uttarakhand	<b>Deepak Khare &amp; team</b>	<b>PI</b>
<b>16</b>	Examination of the DPR of Chamba Mussorrie Phalpatti, Surkanda Devi Gram Samuh Pumping Peyjal Yojana	2014-2015	<b>18.87</b>	SWSM Department of Drinking Water, Uttarakhand	<b>Deepak Khare &amp; team</b>	<b>PI</b>
<b>17</b>	Verification of the Completion Cost of Myntdu Leshka H.E. Project (3x42 MW), Jaintia Hills District, Meghalaya	2014-2015	<b>60.00</b>	MePGCL, Shillong, Meghalaya	<b>Deepak Khare &amp; team</b>	<b>PI</b>
<b>18</b>	Evaluation of BALAWALA PEYJAL SCHEME, Doiwala Block, Dehradun	2014-2015	<b>7.05</b>	SWSM Department of Drinking Water, Uttarakhand	<b>Deepak Khare &amp; team</b>	<b>PI</b>

SN	Title of the Project	Year/ Duration	Amt (Lacs)	Funding Agency	PI/CoPI	Remarks
19	Cumulative Scientific Study to Assess the Impact of Existing and Proposed Hydro Powerstations on Eastern Ganga Basin in Bageshwar (Uttarakhand),	2013-2015	53.4	UJVNL, Uttarakhand Government Dehradun	D.D. Das, SK ML Mishra, Kansal <b>Deepak Khare</b>	Member
20	Cumulative Scientific Study to Assess the Impact of Existing and Proposed Hydro Powerstations on Saryu River Basin in Bageshwar (Uttarakhand),	2013-2015	53.4	UJVNL, Uttarakhand Government Dehradun	D.D. Das, SK ML Mishra, Kansal <b>Deepak Khare</b>	Member
21	Study to assess the water availability for the proposed Ghatampur Thermal Power Station (GTPS) - (3x660 MW)- from Allahabad West Branch Canal/Or any other alternate Sources	2014-2015	60.00	NEYVELI LIGNITE CORPORATION LTD., NEYVELI	<b>Deepak Khare</b> S.K. Mishra P.K. Mishra	PI
22	Evaluation and Checking of Adequacy of Project Components for 20% Overload Conditions of Karcham-Wangtoo Hydroelectric Project in Himachal Pradesh	2015-2016	30.0	Jaiprakash Power Ventures Limited (JPVL), Noida	<b>Deepak Khare</b> & team	PI
23	"Expert Opinion for Modification and Reconstruction of Energy Dissipation Arrangement of ISP Dam at ISPS, Narmada Nagar, Distt- Khandwa (MP)"	2015-2016	5.0	NHDC Limited NHDC Parisar, Shyamla Hills, Bhopal	<b>Deepak Khare</b>	PI
24	Design of a composite Dam & Dam toe power house of Erach Dam, JHANSI district	2015-2017	86.24	Ghanaram infra Engineers Pvt.Ltd, Jhansi	<b>Deepak Khare</b> & team	PI
25	PFR for Drainage system with rainwater harvesting in Express way	2016-17	5.00	M/s AFCONS Industrial Estate, Veera Desai Andheri (W), Mumbai	Hari Prasad CSP Ojha <b>Deepak Khare</b>	Member
<b>In Progress</b>						
26	"SURFACE MASTER RUNOFF STUDY FOR IPP SESA STERLITE LIMITED, JHARSUGUDA"	2014-2017	98.00	SESA STERLITE LIMITED-Venanta	S.K. Mishra <b>Deepak Khare</b> Ashish Pandey U C Chaube	PI
27	Revised design /retrofitting of Composite Erach dam JHANSI district	2016-2017	80.00	Ghanaram infra Engineers Pvt.Ltd, Jhansi	<b>Deepak Khare</b> & team	PI
28	design of pump house and delivery tank to Feed Canal at Erach dam, Jhansi District	2016-2017	30.00	Ghanaram infra Engineers Pvt.Ltd, Jhansi	<b>Deepak Khare</b> & team	PI

PI: Principal Investigator

**Details of Visits of other countries:****USA, UK, Australia, Singapore, Germany, Austria, Chez Republic, Malaysia**

<b>Institutes/Organization Visited</b>	<b>Purpose of Visit</b>	<b>Date of Visit</b>
University of Applied Sciences Dresden (Germany) Waterworks Torgau-Germany, visit of Stadtwerke Düsseldorf- Germany Visit of power station and waterworks Freudenu, Vienna-Austria and visits were also made to Chez Republic.	EU-Indian River Bank Filtration Network Workshop and Project Visits.The visits were a part of the EU-India Economic Cross Cultural Programme (ECCP) funded by the European Union with project No.-SIE/2004/095-733.	<b>4-17 Sept, 2005</b>
Urban Flood plain Management River Authority, San Antonio, Texas USA	To discuss with official and see the urban flood control measures. & International conference on Watershed Management to meet water quality and TMDL issues: solutions and impediments to Watershed Management and TMDLs	<b>12-13 March, 2007</b>
Geo-environment Research Centre, Cardiff university, Cardiff, UK	Meeting with Faculty in connection with the collaboration	<b>16 March, 2007</b>
NTU and NUS SINGAPORE	Visit to Division of Environmental & Water Resources Engineering, Nanyang Technological University (NTU) Singapore and Department of Civil and Environmental Engineering National University of Singapore (NUS) SINGAPORE:  Lecture at NTU and possible research collaboration with NTU and NUS	<b>3-6 March, 2012</b>
Sydney, Australia	Presenting paper in International conference EcoForum Conference and Exhibition-2012.  The conference was held at Australian Technology Park, Bay 8, Locomotive Workshop, Henderson Road, Eveleigh, Sydney	<b>7-9 March, 2012.</b>
Malaysia	Participated and presented paper in “The 2nd IWA Malaysia Young Water Professionals Conference 2015 (YWP15)”. The second conference organized by the IWA Malaysia Young Water Professionals Chapter via collaborations with the Institute of Environment and Water Resource Management (IPASA), UTM Water Research Alliance at Kuala Lumpur, Malaysia	<b>17-20 March, 2015</b>

<b>Institutes/Organization Visited</b>	<b>Purpose of Visit</b>	<b>Date of Visit</b>
Singapore	Participated in Singapore International Water Week (SIWW) Technology and Innovation Summit (STIS), held in Singapore	16 – 17 June 2015
Penang, Malaysia	Visited River Engineering and Urban Drainage Research Centre (REDAC), University Sains Malaysia, PENANG. Discussions for collaborative research.	18 – 19 June 2015.

**Courses/Seminars Workshops- Co-ordinated/Organised (42+08)=50**

**Refresher Courses/ Training Programme Organized: 42**

<b>SN</b>	<b>Name of Activity</b>	<b>Title of Course</b>	<b>Sponsoring Agency</b>	<b>Duration</b>	<b>Coordinator</b>
42	Training Course	6 Weeks- Orinetation Program on "HYDROPOWER DEVELOPMENT AND GENERAL MANAGEMENT"	UJVNL Dehradun (Uttrarakhand)	07 March-14 April, 2017	S. Rangnekar Deepak Khare B.K. Gandhi
41	Training Course	ASSESSMENT OF SOIL EROSION AND SEDIMENTATION CONTROL IN HYDROPOWER PROJECTS	NHPC, New Delhi	30 Jan-01 Feb 2017	Deepak Khare
40	Training Course	ASSESSMENT OF SOIL EROSION AND SEDIMENTATION CONTROL IN HYDROPOWER PROJECTS	NHPC, New Delhi	07-09 January 2016	Deepak Khare S.K. Mishra
39	Training Course	Dam break analysis	NHPC, New Delhi	02-04 October 2015	S.K. Mishra Deepak Khare
38	Training Course	Capacity Building of Minor Irrigation Organisation	OCTDMS cum- Addl. Secretary to Govt., Dept. of Water Resources Govt. of Odisha,	14-19 Sep, 2015	Deepak Khare

SN	Name of Activity	Title of Course	Sponsoring Agency	Duration	Coordinator
			Bhubaneswar		
37	Training Course	Capacity Building of Minor Irrigation Organisation	OCTDMS cum-Addl. Secretary to Govt., Dept. of Water Resources Govt. of Odisha, Bhubaneswar	21-26 Sep, 2015	Deepak Khare
36	Training Course	Dam break analysis	NHPC, New Delhi	26-30 December, 2014	S.K. Mishra Deepak Khare
35	Training Course	Project Management for River Valley Projects	NHPC, New Delhi	27-29 Nov 2014	Deepak Khare S.K. Mishra
34	Training Course	Ground Water development, Assessment & Management	NABARD, HO, Mumbai	23-28 Dec. 2013	Deepak Khare
33	Training Course	Capacity Building of Minor Irrigation Organisation	OCTDMS cum-Addl. Secretary to Govt., Dept. of Water Resources Govt. of Odisha, Bhubaneswar	26 Nov-2 Dec, 2013	Deepak Khare
32	Training Course	Capacity Building of Minor Irrigation Organisation	OCTDMS cum-Addl. Secretary to Govt., Dept. of Water Resources Govt. of Odisha, Bhubaneswar	11-16 Nov2013	Deepak Khare
31	Training Course	Capacity Building of Minor Irrigation Organisation	OCTDMS cum-Addl. Secretary to Govt., Dept. of Water Resources Govt. of Odisha, Bhubaneswar	23-28 Sep 2013	Deepak Khare
30	Training Course	Capacity Building of Minor Irrigation Organisation	OCTDMS cum-Addl. Secretary to Govt., Dept. of Water Resources Govt. of Odisha, Bhubaneswar	16-21 Sep 2013	Deepak Khare
29	Training Course	Capacity Building of Minor Irrigation Organisation	OCTDMS cum-Addl. Secretary to Govt., Dept. of Water Resources Govt. of Odisha,	26 Feb- to 3 March, 2013	Deepak Khare

SN	Name of Activity	Title of Course	Sponsoring Agency	Duration	Coordinator
			Bhubaneswar		
28	Training Course	Project Management for River Valley Projects	NHPC, New Delhi	21-25 Jan., 2013	Deepak Khare
27	Training Course	Project Management for River Valley Projects	NHPC, New Delhi	29 Oct-2 Nov, 2012	Deepak Khare
26	Training Course	Project Management for River Valley Projects	NHPC, New Delhi	16-20 January, 2012	Deepak Khare
25	Training Course	Catchment Area Conservation and Management Aspects	Dept of Drinking Water, Swajal, Uttarakhand	1-3 September, 2011	Deepak Khare B.K. Gandhi
24	Training Course	Catchment Area Conservation and Management Aspects	Dept of Drinking Water, Swajal, Uttarakhand	3-5 September, 2011	Deepak Khare B.K. Gandhi
23	Training Course	Feasibility, Design & DPR preparation	Dept of Drinking Water, Swajal, Uttarakhand	28 Feb-4 March, 2011	B.K. Gandhi Deepak Khare
22	Training Course	"Construction Supervision and Operation & Maintenance "	Dept of Drinking Water, Swajal, Uttarakhand	14-18 Feb., 2011	B.K. Gandhi Deepak Khare
21	Training Course	"Construction Supervision and Operation & Maintenance "	Dept of Drinking Water, Swajal, Uttarakhand	31 Jan.-4 Feb., 2011	B.K. Gandhi Deepak Khare
20	Training Course	"Construction Supervision and Operation & Maintenance "	Dept of Drinking Water, Swajal, Uttarakhand	24-28 January, 2011	B.K. Gandhi Deepak Khare
19	Training Course	"Construction Supervision and Operation & Maintenance "	Dept of Drinking Water, Swajal, Uttarakhand	17-21 January, 2011	B.K. Gandhi Deepak Khare
18	Training Course	"Construction Supervision and Operation & Maintenance "	Dept of Drinking Water, Swajal, Uttarakhand	10-14 January, 2011	B.K. Gandhi Deepak Khare
17	Training Course	"Construction Supervision and Operation & Maintenance "	Dept of Drinking Water, Swajal, Uttarakhand	11-15 October, 2010	B.K. Gandhi Deepak Khare
16	Training Course	"Construction Supervision and	Dept of Drinking Water, Swajal,	13-17 September,	B.K. Gandhi Deepak Khare

SN	Name of Activity	Title of Course	Sponsoring Agency	Duration	Coordinator
		Operation & Maintenance "	Uttarakhand	2010	
15	Training Course	Feasibility, Design & DPR preparation	Dept of Drinking Water, Swajal, Uttarakhand	5-9 Jan, <b>2010</b>	B.K. Gandhi Deepak Khare
14	Training Course	Project Management for River Valley Projects	NHPC, New Delhi	22-26 Nov, <b>2010</b>	Deepak Khare
13	Training Course	Feasibility, Design & DPR preparation	Dept of Drinking Water, Swajal, Uttarakhand	12-16 Jan, <b>2010</b>	B.K. Gandhi Deepak Khare
12	Training Course	Feasibility, Design & DPR preparation	Dept of Drinking Water, Swajal, Uttarakhand	5-9 Jan, <b>2010</b>	B.K. Gandhi Deepak Khare
11	Training Course	Feasibility, Design & DPR preparation	Dept of Drinking Water, Swajal, Uttarakhand	14-18 Dec, <b>2009</b>	B.K. Gandhi Deepak Khare
10	Training Course	Feasibility, Design & DPR preparation	Dept of Drinking Water, Swajal, Uttarakhand	7-11 Dec, <b>2009</b>	B.K. Gandhi Deepak Khare
9	Training Course	Feasibility, Design & DPR preparation	Swajal, Uttarakhand	23-27 Nov, <b>2009</b>	B.K. Gandhi Deepak Khare
8	Training Course	Feasibility, Design & DPR preparation	Swajal, Uttarakhand	16-20 Nov, <b>2009</b>	B.K. Gandhi Deepak Khare
7	Training Course	Feasibility, Design & DPR preparation	Swajal, Uttarakhand	16-20 March, <b>2008</b>	Deepak Khare B.K. Gandhi
6	Training Course	Feasibility, Design & DPR preparation	Swajal, Uttarakhand	4-8 Feb, <b>2008</b>	Deepak Khare B.K. Gandhi
5	Training Course	Feasibility, Design & DPR preparation	Swajal, Uttarakhand	8-12 Jan, <b>2008</b>	Deepak Khare B.K. Gandhi
4	Short Term Course	Advanced Applications of SCS-CN Technique	<i>QIP, IIT Roorkee,</i>	30 Oct-3 Nov, <b>2006</b>	S.K. Mishra Deepak Khare
3	Short Term Course	Water Management for Sustainable Agriculture production in canal commands	<i>Ministry of Water Resources, New Delhi</i>  <i>(at CEP, IIT Roorkee)</i>	21-27 Feb, 2005	S.K. Tripathi Deepak Khare
2	ISTE Winter School	"Computer Applications on Surface and Ground	AICTE-ISTE New Delhi (at SGSITS Indore)	8-20 Jan., 1996.	R.K.Shrivastav a Deepak Khare

SN	Name of Activity	Title of Course	Sponsoring Agency	Duration	Coordinator
		Water Hydrology"			
1	Refresher Course	"Ground Water Economics"	International Training Centre (ITN) Centre (India), All India Institute of Hygiene & Public Health, Calcutta (at SGSITS Indore)	16 –21 Oct, 1995	Deepak Khare R.K. Shrivastava

### Seminars/Workshops Organized: 08

SN	Name of Activity	Title of Seminar/Workshop	Organized By /Sponsoring Agency	Duration	Coordinator/ Convener
8	Workshop	“Climate Change: Issues And Challenges With Special Emphasis For Hilly Region”	QIP, IIT Roorkee and IWRS	March 28, 2014	Deepak Khare Ashish Pandey
7	Workshop	“Advanced Control and Computing Technologies for Reliable Industrial Electricity Saving (ACCTRIES-14)”	Uttarakhand State Council of Science and Technology	17 <sup>th</sup> to 18 <sup>th</sup> February, 2014	Thanga Raj Deepak Khare S.P. Shrivastava
6	Workshop	“Water Use Efficiency”	IWRS and WRDM IITR	9th Dec., 2013	Deepak Khare Ashish Pandey
5	<b>International Symposium</b>	“Recent Advances in Water Resources Development & Management”	WRDM IIT Roorkee	23-25 November, 2005	Deepak Khare <b>Org. Secretary</b>
4	Workshop	“Water Conservation and Rain Water Harvesting”	Institution of Engineers (I) Roorkee Centre	15 <sup>th</sup> December 2005	Deepak Khare Convener S.K. Jain Org. Secretary
3	Panel Discussion	“Floods and Drought Management”	IWRS	28 August, 2004	Deepak Khare <b>Convener</b>
2	Workshop	“Rain Water Harvesting: Need of People’s Participation”	SGSITS, Indore and IMC (at SGSITS Indore)	23 <sup>rd</sup> Sep., 2000	Deepak Khare Org. Secretary
1	Workshop	"Preparation of the Laboratory Manual	M.P. Council for Science and	1-3 Sep., 1995	Deepak Khare RakeshKhare

SN	Name of Activity	Title of Seminar/Workshop	Organized By /Sponsoring Agency	Duration	Coordinator/ Convener
		for Computer Simulation Lab"	Technology, Bhopal (at SGSITS Indore)		R.K. Shrivastava

Membership in Professional Societies			
Name of Society/Organization			Membership No.
1	International Association for Hydro-Environment Engineering and Research	IAHR	IAHR -55426.
2	Institution of Engineers (India)	IE(India)	F-122947-4 CV
3	Indian Water Resources Society	IWRS	F-02-1123
4	Indian Water Works Association	IWWA	LM-2025
5	Indian Society for Technical Education	ISTE	LM-2590
6	Indian Society of Remote Sensing	ISRS	LM-1480
7	Indian Association of Hydrologist	IAH	LM- 530
8	Indian Association of Soil and Water Conservation	IASWC	LM-1244-K
9	Indian Geotechnical Society (Indore Centre)	IGS	LM-028
10	Indian National Cartographic Association	INCA	LM-1281

## Publication/Ph.D./M.Tech-----at a Glance

<b>Publications</b>	<b>208</b>
<b>Ph.D Awarded/Completed</b>	<b>16</b>
<b>Ph.D Under Progress</b>	<b>08</b>
<b>M.Tech. Thesis ** (Guided)</b>	<b>90</b>
<b>Under Graduate Projects (Guided)</b>	<b>04</b>

## PUBLICATIONS

### Books/Proceedings- Edited:

1. Khare Deepak, Mishra S. K., Tripathi S. K., Chauhan Gopal, Sharma Nayan (Editors), Recent Advances in Water Resources Development & Management Vol-I, Allied Publisher, 2005
2. Khare Deepak, Mishra S. K., Tripathi S. K., Chauhan Gopal, Sharma Nayan (Editors), Recent Advances in Water Resources Development & Management Vol-II, Allied Publisher, 2005

## Research Papers in International Journals: (85)

1. Kundu, S., Mondal, A., Khare, D., Hain, C., & Lakshmi, V. (2018). Projecting Climate and Land Use Change Impacts on Actual Evapotranspiration for the Narmada River Basin in Central India in the Future. *Remote Sensing*, 10(4), 578.
2. Worku, T., Khare, D., & Tripathi, S. K. (2018). Spatiotemporal trend analysis of rainfall and temperature, and its implications for crop production. *Journal of Water and Climate Change*, jwc2018064.
3. Nema, M. K., Khare, D., Adamowski, J., & Chandniha, S. K. (2018). Spatio-temporal analysis of rainfall trends in Chhattisgarh State, Central India over the last 115 years. *Journal of Water and Land Development*, 36(1), 117-128.
4. Joseph, A., Desingu, K., Semwal, R. R., Chelliah, T. R., & Khare, D. (2018). Dynamic performance of pumping mode of 250 MW variable speed hydro-generating unit subjected to power and control circuit faults. *IEEE Transactions on Energy Conversion*, 33(1), 430-441.
5. Mondal, A., Khare, D., & Kundu, S. (2018). A comparative study of soil erosion modelling by MMF, USLE and RUSLE. *Geocarto International*, 33(1), 89-103.
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7. Worku, T., Tripathi, S. K., & Khare, D. (2018). Household level tree planting and its implication for environmental conservation in the Beressa Watershed of Ethiopia. *Environmental Systems Research*, 6(1), 10.
8. Brij Kishor Pandey, Harinarayan Tiwari, **Deepak Khare**, “Trend analysis using discrete wavelet transform (DWT) for long-term precipitation (1851–2006) over India”, *Hydrological Sciences Journal*, October 2017, DOI: 10.1080/02626667.2017.1371849, (Impact Factor-2.37)
9. S Kundu, D Khare, A Mondal “Future Projection of Rainfall by Statistical Downscaling Method in a Part of Central India” *Environment and Earth Observation*, Springer, pp.57-70, 2017, (Impact Factor-3.798)
10. T Worku, **D Khare**, SK Tripathi “Modelling Runoff- Sediment Response to Land Use/Land Cover Changes Using Integrated GIS and SWAT Model in the Beressa Watershed, Ethiopia” *Environmental Earth Sciences*, Springer (Accepted), 2017 (Impact Factor-1.765)
11. S Kundu, **D Khare**, A Mondal “Individual and combined impacts of future climate and land use changes on the water balance” *Journal of Ecological Engineering*, Elsevier pp.42-57, 2017, (Impact Factor-3.422)
12. S Kundu, **D Khare**, A Mondal “Past, present and future land use changes and their impact on water balance” *Journal of Environmental Management*, Elsevier 197, 582-596, 2017. July, 2017(Impact Factor-4.712)
13. Ermias Sisay, Afera Halefom, **Deepak Khare**, Lakhwinder Singh Tesfa Worku “Hydrological modelling of ungauged urban watershed using SWAT model” *Modeling Earth Systems and Environment* June 2017, Volume 3, Issue 2, pp 693–702
14. Afera Halefom, Ermias Sisay, **Deepak Khare**, Lakhwinder Singh, Tesfa Worku “Hydrological modeling of urban catchment using semi-distributed model” *Modeling Earth Systems and Environment* June 2017, Volume 3, Issue 2, pp 683–692

15. Brij Kishor Pandey, **Deepak Khare** “Assessment of Reference Evapotranspiration in the Context of Climate Change for Central India (Madhya Pradesh)” Water Science and Technology Library, Edition: Vol. 84, Chapter: Development of Water Resources in India, Publisher: Springer, April 2017
16. Rituraj Shukla, **Deepk khare**, Priti Tiwari, P.K Mishra , Sakshi Gupta “Analysis of Long Term Temperature Trend for Madhya Pradesh, India (1901-2005)” Current World Environment 12(1):68-79 · April 2017
17. Sakshi Gupta, Deepak Khare “Quality of Rooftop Harvested Rainwater Stored in Polyethylene Terephthalate Container” Water and Science and Technology Library, Edition: Vol 84, Chapter: Development of Water Resources in India, Publisher: Springer International Publishing, pp.V, 418, April 2017
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19. MK Nema, **D Khare**, SK Chandniha “Application of artificial intelligence to estimate the reference evapotranspiration in sub-humid Doon valley” Applied Water Science, 1-8, 2017
20. T Worku, SK Tripathi, **D Khare** “Household level tree planting and its implication for environmental conservation in the Beressa Watershed of Ethiopia” Environmental Systems Research 6 (1), 10, 2017
21. A Mondal, **D Khare**, S Kundu “Identification of Crop Types with the Fuzzy Supervised Classification Using AWiFS and LISS-III Images” Environment and Earth Observation, 73-86 ,2017
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28. Kundu, S, **Khare, D** & Mondal, A., Interrelationship of rainfall, temperature and reference evapotranspiration trends and their net response to the climate change in Central India,

- Theoretical and Applied Climatology, Springer, DOI: 10.1007/s00704-016-1924-5, Sep., 2016, pp 1-22
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  30. **Deepak Khare**, Leki DorjiL, Arun Mondal & Sananda Kundu, Impact Of Climate Change on Glaciers-A Case Study of Bhutan, International Journal of Asian Academic Research Associates, AARJMD ASIAN ACADEMIC RESEARCH JOURNAL OF MULTIDISCIPLINARY, AARJMD VOLUME 3/1, Jan, 2016,ISSN:2319 – 2801, pp 47-63
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  32. Arun Mondal, **Deepak Khare**, Sananda Kundu, Surajit Mondal, Sandip Mukherjee & Anirban Mukhopadhyay, Spatial soil organic carbon (SOC) prediction by regression kriging using remote sensing data, National Authority for Remote Sensing and Space Sciences, The Egyptian Journal of Remote Sensing and Space Sciences, Elsevier, 2016
  33. Mondal, A., **Khare, D.**, & Kundu, S. 2016. Impact of climate change on future soil erosion and SOC loss in different slope, soil and landuse condition, *Natural Hazards*, Springer Publisher, DOI: 10.1007/s11069-016-2255-7. (Thomson Reuters IF 1.72)
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  35. Mondal, A., **Khare, D.**, Kundu, S., Mukherjee, S., Mukhopadhyay, A., Mondal, S. 2016. Uncertainty of Soil Erosion Modeling Using Open Source High Resolution and Aggregated DEMs. *Geoscience Frontiers*. Elsevier Publisher DOI: 10.1016/j.gsf.2016.03.004
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  37. **Khare, D.**, Dorji, L., Mondal, A., Kundu, S. 2016. Impact of climate change on glaciers-a case study of Bhutan. *Asian Academic Research Journal of Multidisciplinary*.
  38. Brij K Pandey, A K Gosain, George Paul, **Deepak Khare** “Climate change impact assessment on hydrology of small watershed using semi- distributed model” *Applied Water Science*, Springer. February 2016
  39. Sakshi Gupta, **Deepak Khare** and Nitin Mishra,”*Quality Analysis of Roof-Top Rainwater Harvested In Different Materials at High Temperature*. Int J Recent Sci Res. 7(4), pp. 10044-10046, June, 2016
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  41. Behera S., **Khare D.**, Mishra P.K. and Sahoo S. (2016) “Application of Statistical Downscaling Model for Prediction of Future Rainfall in Bhudhabalanga River Basin, Odisha (India)”. *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN:224 –8958, Volume-5, Issue-4, April 2016.

42. Behera S., **Khare D.**, Mishra P.K. and Sahoo S. (2016) "Impact of climate change on Crop Water Requirement for Sunei Medium Irrigation Project, Odisha, India". Seventh Sense Research Group (SSRG) International Journal of Engineering Trends and Technology (IJETT) Volume 34 Number 8-April 2016.
43. Sahoo S., **Khare D.**, Mishra P.K. and Behera S. (2016): "A Comparative study on Environmental Flows Assessment methods in lower reach of Mahanadi River". *Seventh Sense Research Group (SSRG) International Journal of Engineering Trends and Technology*, Vol. 32, N0-2, February 2016. DoI.10.14445/22315381/IJETT-V32P215.
44. Sahoo S., Khare D., Mishra P.K. and Behera S. (2016): "Environmental Flows allocation in two main distributaries of Mahanadi River". *International Journal of Geology, Earth and Environmental Sciences (JGEE)*, Vol. 06, Issue 1, January - April, 2016. Ref. MS No. JGEE 2016/06/01/009.
45. Sethi, R, Pandey, B K, Krishan, R., **Khare, D.**, and Nayak, P. C. (2015). "Performance evaluation and hydrological trend detection of a reservoir under climate change condition." *Model. Earth Syst. Environ.*, 1(4), 1-10, Springer.(Published)
46. Brij K Pandey, A K Gosain, George Paul, **Deepak Khare** "Climate change impact assessment on hydrology of small watershed using semi- distributed model" *Applied Water Science, Springer*. (Published)
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48. Meena, P.K., **Khare, D.**, Shukla, R, Mishra, P. K. (2015) Long Term Trend Analysis of Mega Cities in Northern India using Rainfall Data, *Indian Journal of Science and Technology* 8.3 (Feb 2015): 247-253.
49. Mondal, A., **Khare, D.**, Kundu, S., Meena, P., Mishra, P., and Shukla, R. (2014). "Impact of Climate Change on Future Soil Erosion in Different Slope, Land Use, and Soil-Type Conditions in a Part of the Narmada River Basin, India." *J. Hydrol. Eng.*, 10.1061/(ASCE)HE.1943-5584.0001065, C5014003.
50. **D Khare**, A Mondal, PK Mishra, S Kundu, PK Meena (2014) Morphometric analysis for prioritization using remote sensing and GIS Techniques in a hilly catchment in the State of Uttarakhand, India . *Indian Journal of Science and Technology* 7 (10), 1650-1662
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55. **Deepak Khare**, Diptendu Patra, Arun Mondal, Sananda Kundu, "Impact of landuse/land cover change on run-off in the catchment of Narmada River in India", Appl Geomatics, DOI 10.1007/s12518-014-0148-6, Springer, December, 2014
56. Kundu, S., Mondal, A., **Khare, D.**, Mishra, P. K., & Shukla, R. "Shifting shoreline of Sagar Island Delta, India". Journal of Maps, Taylor and Francis 10(4), 2014, pp. 612-619..
57. Mishra Nitin, **Deepak Khare**, Rituraj Shukla and Kalyani Kumar, "*Trend Analysis of Air Temperature Time Series by Mann Kendall Test-A Case Study of Upper Ganga Canal Command (1901-2002)*", published in British Journal of Applied Science & Technology , SCIENCE DOMAIN International; Volume 4 (28), , 2014, PP.4066-4082
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60. Rituraj Shukla, **Deepak Khare** "Historical trend investigation of temperature variation in indirasagar canal command area in madhyapradesh (1901–2005)" International Journals of Advanced Information Science and Technology (IJAIST), ISSN: 2319:268, Vol.15, No.15, July 2013, pp 58-67
61. Rituraj Shukla, **Deepak Khare** "Land use/land cover change detection of Indira Sagar canal command area using integrated remote sensing and GIS tools". International Journal of Space and science, Vol 2, Issue 1, ISSN:2321-6506, Publisher STM., 2013 pp 1-10
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64. Santosh M. Pingale, Mahesh K. Jat and **Deepak Khare** "Integrated urban water management modelling under climate change scenarios" Journal of Resources, Conservation & Recycling, Elsevier. 2013, 83: 176-189. <http://dx.doi.org/10.1016/j.resconrec.2013.10.006>, Impact factor = 2.319.
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69. Mishra Nitin, **Deepak Khare**, K.K.Gupta and Rituraj Shukla, “*Trend Analysis of Annual Rainfall in Upper Ganga Canal Command for Twentieth Century (1901–2010)*”, published in Asian Academic Research Journal of Multidisciplinary (AARJM) Volume 1 Issue 4, , Pub. Date: Oct, 2013, PP.213-226
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  82. **Khare Deepak**, P.K.Garg, Carandang R. H. and Shailza Verma, "Planning of Rooftop Rainwater Harvesting Using GIS - A Case Study for Mussoorie, India", Asian Journal of Geoinformatics Vol.7 No.1 Jan **2007** pp47-52
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#### Research Papers in National Journals: (22)

1. Pramod Kumar Meena, Deepak Khare, **Rituraj Shukla** and P. K. Mishra (2015) "Long Term Trend Analysis of Mega Cities in Northern India using Rainfall Data", Indian Journal of Science and Technology, Vol 8(3), 247-253, February 2015
2. **Khare, D.**, Mondal, A., Mishra, P. K., Kundu, S and Meena, P. K. 2014. Morphometric analysis for prioritization using Remote Sensing and GIS techniques in a hilly catchment in the state of Uttarakhand, India. *Indian Journal of Science and Technology*, 7(10), pp. 1650-1662.
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4. R. Biswas, **Deepak Khare** and R. Shankar, "Alternative approaches to urban water management", Journal of SAPCE (The SPA Journal of Planning & Architecture), Vol. 13, No.2, **2008**, pp 65-97
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2. Rajasingh Rassiah, Thanga Raj Chelliah, Deepak Khare, U. S. Ramesh “Energy Saving Strategy on Electric Propulsion System Integrated with Doubly Fed Asynchronous Motors” 2016 IEEE 7th Power India International Conference (PIICON), At Bikaner (Rajasthan), India
3. Brij K Pandey, A K Gosain, George Paul, **Deepak Khare** “**Hydrological Modeling of Small Watershed: Impact and Coping strategies towards Climate Change**” of International conference Modeling Tools for Sustainable Water Resources Management (MTSWRM) at IIT Hyderabad 28-29 December 2014 (Presented Paper).
4. R Krishan, Brij K Pandey, P P Katarki and **Deepak Khare** “**Water Resources Assessment Using DSS under Climate Change Scenario**” at HYDRO-15 International Conference organized by IIT Roorkee in December 2015.
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28. Brar, T.S., Jain, R.K. and **Khare, D.**, 'Public Participation and Innovative Techniques for Water Management in Urban Areas', 53<sup>rd</sup> National town and Country Planners Congress, Indore, 2004.pp 247 – 253.
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30. Brar, T.S., Jain, R.K. and Khare, D., 'Changes In Building Bye-Laws For Domestic Rain Water Harvesting', Planning and Construction of Buildings in Modern India, The Institution of Engineers (India), Roorkee Local Centre, IIT Roorkee, Roorkee, 2004.
31. ParmanandSinha, AkshyaDwivedi, HariNasmiatra, **Deepak Khare** "Perspective of Tradetional Water Harvesting System", National conference on Traditional knowledge system in India' held at IIT Kharagpur, 9-11 January, 2004.
32. **Dr. Deepak Khare**, Dr. C.S.P.Ojha&Ramakant "Filtration of harvested rainwater from rooftop: A case study" in National Seminar on "Rainwater Harvesting" 19 November 2003 at Hyderabad organized by Bureau of Indian Standards-BIS
33. **Dr. Deepak Khare**, Dr. C.S.P.Ojha, Ramakant&ShailzaVerma "Qualitative management of harvested rainwater treatment system" in National Water Convention 5-7 November 2003, at Bhuvneshwar, Orrisa.
34. **Khare Deepak**, "Issues and challenges in rainwater harvesting: Some experiences of Indore Madhya Pradesh", Paper presented as Key Speaker and published in the

- Proceeding of national workshop on rainwater management (rural & urban solution), Organized INSTRUCT, Bangalore, 24-25 January, 2003
35. **Khare Deepak**, "Necessity of filtration devices for rainwater harvesting", Paper published in the Proceeding of national symposium on rainwater management for water security, Organized JNKVV Jabalpur ( M.P), 6-7 January, 2003
  36. **Khare Deepak**, "Implementation of rainwater harvesting project: Issues and challenges", Paper presented and published in the Proceeding of National Seminar on "Water and Environment: Issues & Challenges", Organized by IWRS and WRDTC, IIT Roorkee 12-13 October, 2002
  37. **Khare Deepak**, "Rainwater Harvesting: An overview of Indore", paper presented and published in the National Seminar on Groundwater conservation and management-With special reference to Madhya Pradesh, 16-17 May, 2002
  38. **Khare Deepak**, Asawa G.L. and Chawla A.S., "Economic Analysis For Conjunctive Use Planning Of Water Resources" paper presented and published in the proceedings of National seminar on "Recent Trends in Civil Engineering" 22-23 February, 2002
  39. **Khare Deepak**, "Groundwater Withdrawals in Indore City", paper presented and published in the proceedings of the workshop on Rainwater Harvesting: Need of People's Participation, 23<sup>rd</sup> Sep., 2000.
  40. **Khare Deepak**, "Methods of Rainwater Harvesting", paper presented and published in the proceedings of the workshop on Rainwater Harvesting: Need of People's Participation, 23<sup>rd</sup> Sep., 2000.
  41. **Khare Deepak**, "Application of Modelling Techniques in Planning Ground Water Development.", Key paper invited for the Workshop on Ground Water Development Trends and Related Issues in Madhya Pradesh, under Hydrology Project, 9th October, 1999.
  42. **KhareDeepak** ,Asawa, G.L. and Chawla, A.S., "Optimum Capacity of Shallow tubewells." Seminar on Recent Trends of Engineering in Rural Context, Pantnagar (UP), Nov., 1994.
  43. Shrivastava, R.K. and **Khare Deepak**, "Major and Minor Irrigation Schemes : Some thoughts", Invited Paper published in the Souvenir on Water Resources Day- 1994, Organised by IWRS Indore Centre, 12th June, 1994
  44. **Khare Deepak** , Asawa, G.L. and Chawla, A.S., "Conjunctive use for water Management", Presented in Seminar-93, held at University of Roorkee, Roorkee, 3-4 April, 1993.
  45. **Khare Deepak** and Shrivastava, R.K., "Environmental Aspects & Responsibilities of Various Organisations in Large Dam Construction" Paper Published in the Proceedings of National Symposium of IWRS on Large Reservoirs: Environmental Loss or Gain, held at Nagpur, 7-9 Feb., 1992.
  46. Shrivastava, R.K., **Khare Deepak** and Ajmera Sunil, "Optimal Cropping Pattern under varying availability of water in Jobat Project" Paper Published in the Proceedings of National Symposium on Optimization Techniques & Applications, held at Madurai, Tamilnadu, 2-3 July, 1992

## DETAILS OF THESIS SUPERVISED

### Ph.D. Thesis

Awarded =18  
Under Progress =08

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
<b>Awarded =16</b>				
<b>1</b>	"Modelling of sand filters for rainwater harvesting",	2006	Ramakant	<b>Deepak Khare</b> C.S.P. Ojha
<b>2</b>	"Spatial Decision Support System for Water Resources Planning on Watershed Basis"	2006	Kishore A.Dhore ,	U.C. Chaube <b>Deepak Khare</b> P.K. Garg
<b>3</b>	Soil Erosion Modelling in LoktakLake Catchment: An Integrated Approach	2007	Singh K, Sonamani	<b>Deepak Khare</b> S.K.Jain Bhishm Kumar
<b>4</b>	Integrated Water Management Modelling In Urban Fringe Using Remote Sensing & GIS	2007 <b>(CED)</b>	Mahesh Kumar Jat	P.K. Garg <b>Deepak Khare</b>
<b>5</b>	"Decision Support System for Integrated Urban Water Management"	2010	ShailzaVerma	<b>Deepak Khare</b> Sharad K Jain
<b>6</b>	"Water Supply Management in Uban Residential Development"	2010 <b>(APD)</b>	R. Biswas	R. Shankar <b>Deepak Khare</b>
<b>7</b>	"Solute Transport from Fly ash Slurry Pond",	2010	Gaikwad P.G.	<b>Deepak Khare</b> G.C. Mishra
<b>8</b>	"Assessment And Management Of Waterlogged Area Within An Irrigation Command Areas Using GIS And Remote Sensing"	2011 <b>(CED)</b>	ShirishaUppaluri	S.K. Ghosh <b>Deepak Khare</b>
<b>9</b>	"Water Resources Management Policy for Sustainable Urban Development"	2011 <b>(APD)</b>	Tejwant Singh Brar	R.K. Jain <b>Deepak Khare</b>
<b>10</b>	"Distributed Modeling of Conjunctive Using Remote Sensing And GIS",	2012	BhaskarRamchandraNikam	<b>Deepak Khare</b> S.K. Ghosh

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
11	"Assessment of Climate Change & Its Impact on Water Resources"	2013	Santosh Pingle	Deepak Khare M.K. Jat
12	"Impact Assessment of Climate and Landuse Changes on Soil Erosion and Carbon Loss"	2015	Arun Mondal	Deepak Khare
13	"Assessment Of Climate And Landuse Change Impacts On Water Balance"	2015	Sananda Kundu	Deepak Khare
14	"Impact of Climate Change and Landuse Changes on Ground Water in a Canal Command"	2016	Ritu Raj	Deepak Khare
15	"Optimal Water Resources Management in a Canal Command considering Climate Change."	2016	P.K. Mishra	Deepak Khare
16	"Assessment of Hydro-climatological parameters in Kshipra River basin, India "	2016	Pramod Meena	Deepak Khare
17	"Watershed Hydrological Modelling Considering Landuse And Climate Changes"	Submitted in 2017 Aug.	Tesfa Worku Meshesha	Deepak Khare S. K. Tripathi
18	Statistical Downscaling and Hydrological Modeling under Climate Change Scenario	Registered in 2014	Brij Pandey	Deepak Khare
<b>Under Progress=08</b>				
19	Development of Decision Support System for Urban Watershed Under Climate Change	Registered in 2013	Ayush Chandrakar	Deepak Khare
20	Impact Assessment of Climate Change on River Hydrology	Registered in 2013	Manish Nema	Deepak Khare S.K. Jain (NIH)
21	Water Resources Allocation and Management Considering Climate Change in a canal Command	Registered in 2014	Radha Krishan	Deepak Khare Bhaskar Nikam

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
22	Impact of Climate Change on Urban Water	Registered in 2015	Lakhwinder Singh	Deepak Khare
23	Performance Analysis on Large Hydro Generating Units under Varying Climatic Conditions	Registered in 2016	D. Karthik	Thanga Raj Deepak Khare
24	Investigation of power and control redundancies in large asynchronous hydro generating units	Registered in 2016	S. Raghu	Thanga Raj Deepak Khare
25	Hydrological Modelling in Glacierized basin in changing climate	Registered in 2017	TANMOYEE BHATTACHARYA	Deepak Khare Manohar Arora (NIH)
26	"Impact of Climate Change on Drought Conditions in Ethiopia"	Registered in 2017	Mr. Dereje Girma	Deepak Khare P.K. Mishra (NIH)

CED: Civil Engg. Department

APD: Architectural Planning Department

## M.Tech. Thesis

(Guided)-

Completed

=90

-In Progress

=13

### List of M.Tech. Thesis Guided:

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
<b>At SGSITS Indore (till ...2001)</b>				
<b>1</b>	"Ground Water Modeling for Prediction of well water levels in satak project area"	1994	B.Nazeer Ahmed	R.K.Shrivastava <b>Deepak Khare</b>
<b>2</b>	"Conjunctive use of Surface and Ground Water for Satak Command in Narmada River"	1995	R.V.ChalapathiRao	<b>Deepak Khare</b> R.K.Shrivastava
<b>3</b>	"Groundwater Modeling – A Case Study for Indore Tehsil",	1995	VikasGoyal	<b>Deepak Khare</b> R.K.Shrivastava
<b>4</b>	"Real Time Inflow Forecasting and Optimal Strategies for Crop	1995	PratulShrivastava	R.K.Shrivastava <b>Deepak Khare</b>

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
	Planning Under Tawa Project"			
5	"Conjunctive use Planning of Water Resources- A Case Study"	1996	MutnuruSrinivasaRao	<b>Deepak Khare</b> R.K.Shrivastava
6	"Development of Optimal Operating Rule Curves for Tawa Reservoir- A Case Study"	1997	MaqsoodurRahman Khan	R.K.Shrivastava <b>Deepak Khare</b>
7	"Ground Water Modelling- A Case Study For Omkareswar Left Bank Canal Command"	1997	Vijay Kant Maurya	<b>Deepak Khare.</b>
8	"Water Balance Studies for Omkareswar Right Bank Canal Command"	1998	Ramesh Y. Patil	<b>Deepak Khare</b> R.K.Shrivastava
9	"Conjunctive Use Planning of Water Resources: Omkareswar Left Bank Canal Command- A Case Study"	1998	PankajVijayvargiya	R.K.Shrivastava <b>Deepak Khare</b>
10	"Optimal Cropping Pattern Studies for Omkareswar Left Bank Canal Command"	1998	Yogesh Nair	<b>Deepak Khare</b> R.K.Shrivastava
11	"Ground Water Modelling: A Case Study of Depalpur Tehsil, Indore"	1999	Manish Dubey	<b>Deepak Khare</b> R.K.Shrivastava
12	"Impact Assessment of Rajeev Gandhi Watershed Mangement Mission- A Case Study"	2000	Mitthan Singh Raghuwanshi	<b>Deepak Khare.</b>
13	"Derivation of Unit Hydrograph for Maithon Sub Catchment: A Case Study"	2000	SudeshnaBakshi	R.K. Shrivastava <b>Deepak Khare</b>
14	"Optimal Design of Filter For Rooftop Rainwater Harvesting"	2001	HridayeshVarma	T.A.Sihorwala <b>Deepak Khare</b>
15	"Impact Assessment of Rainwater Harvesting on Ground Water Quality",	2001	VasudeoKhairwar	R.K.Shrivastava <b>Deepak Khare</b>
16	"Optimal Design of Pile For Rainwater Harvesting",	2001	S.C.Janoliya	<b>Deepak Khare.</b>
<b>AT IIT ROORKEE (From 2001 onwards)</b>				

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
17	"Performance Evaluation of Chandra Canal Irrigation Project In Nepal"	2001	BinodK.Jha	<b>Deepak Khare</b> Raj Pal Singh.
18	Critical Review of Pratices of Operation And Maintenance of Minor Irrigation System At Ciloganti Indonesia	2001	MuhamatMarasabessy	<b>Deepak Khare</b> Raj Pal Singh.
19	"Study of The Losses in an Irrigation System- A Case Study"	2001	C.L.Jatav	<b>Deepak Khare</b> Raj Pal Singh. D.C.Sharma
20	"Conjunctive Use Planning in Krishna (Nagarjunasagar) – Pennar (Somasila) Link Canal Command",	2002	J.DevaSundar	<b>Deepak Khare.</b>
21	"Conjunctive Use Planning For Sopan Irrigation Project of Indonesia",	2002	Ediwahyunan	<b>Deepak Khare.</b>
22	"GIS Based Analysis For Identification of Water Logged Area, A Case Study of Tawa Project	2002	YancePabisa	<b>Deepak Khare</b> S.K.Ghosh.
23	"Identification of Parameters for Developing Management Information System for An Irrigation Project",	2002	Darmawangsa	V.K.Bairathi <b>Deepak Khare.</b>
24	"Gis Based Study For Rain Water Harvesting - A Case Study for Mussorie",	2002	RegaladoCarangand	<b>Deepak Khare</b> P.K.Garg.
25	"Watershed Management In Droughth Prone Area: A Case Study In Kalahandi District",	2002	DevrajSethi	<b>Deepak Khare.</b>
26	"Towards Effective Watershed Management In Kenya – A Case Study of Machakos District",	2004	Richard MunyaoKanui	Raj Pal Singh <b>Deepak Khare</b>
27	"Parametric Evaluation of Water Logging Using GIS - A Case Study"	2004	Haruno	<b>Deepak KhareS.K.Ghosh.</b>
28	"Watershed Management Using Gis in East Java Province of Indonesia",	2004	HariNasmiarta	<b>Deepak Khare</b> Sanjay K. Jain.

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
29	Envoirmental Impact Assessment of Irrigated Agriculture”	2004	QahramonJumaboyev	<b>Deepak Khare</b> Raj Pal Singh.
30	“Critical Study of Design & Planning of The Work in Some Small Irrigation System in The Philippines”,	2004	Jerome L. Jamanulla	<b>Deepak Khare</b> Raj Pal Singh.
31	“A Study on Suitable Measures for Controlling Seepage Losses From Irrigation Istration Network”,	2004	Bharat Mani Dhital	<b>Deepak Khare</b> Raj Pal Singh.
32	“Study of Cropping Pattern In Irrigated Command”,	2004	Raj Kumar Shreevastava	<b>Deepak Khare</b> Raj Pal Singh.
33	“Assessment of Artificial Recharge Through Recharge Well”,	2005	RajeshwarYadav	<b>Deepak Khare</b> G.C. Mishra
34	“Soil and Water Resources Conservation and Management for Agricultural Production in Dry Areas of Uzbekistan”,	2005	AdhamTulaganov	<b>Deepak Khare</b> Raj Pal Singh.
35	“Watershed Management Planning Using Wms: A Case Study”	2005	Ramesh Pawar	<b>Deepak Khare</b> Sanjay K. Jain.
36	“Irrigation Scheduling in A Canal Command Area- A Case Study”	2005	AgusRejekl Nusantara Nainggolan	<b>Deepak Khare</b> S.K. Mishra
37	“Watershed Prioritization :A Case Study”	2005	TarunBhatnagar	<b>Deepak Khare</b>
38	“Interlinking of Rivers Using GIS”	2005	Agarwal	P.K.Garg <b>Deepak Khare</b>
39	“Delineation of Aquifers By Electrical Resistivity Method”	2006	Sanjeev Kumar	GopalChauhan <b>Deepak Khare</b>
40	“Conjunctive Use Planning of Water Resources in A Canal Command”	2006	Mireku Yaw	<b>Deepak Khare</b>
41	“Rainfall-Runoff Modelling in An Ungauged Watershed Using GIS”	2006	Ajay Kumar Jha	<b>Deepak Khare</b>

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
42	Performance Evaluation of Ground Water Pumping System	2007	Kakarla Narendra Verma	Gopal Chauhan <b>Deepak Khare</b> B.K. Gandhi
43	Effective Water Management Through Improved Irrigation System in A District of Tashkent, Uzbekistan	2007	Djamshid R. Tursunov	<b>Deepak Khare</b>
44	Soil Erosion Modelling in Watershed- A Case Study	2008	Ms. Sumedha Kulkarni	<b>Deepak Khare</b>
45	DSS For Water Resources Assessment In Changing Climate	2009	Prakash P. Katarki	Deepak Khare
46	Assessment of Climate Change & Its Impact in River Basin Planning	2010	Ari Setyorini	Deepak Khare
47	Impact of Climate Change on Stream Flow	2010	Wishu Pramudiio	Deepak Khare S.K. Jain
48	Rainwater Harvesting in an Urban Area Considering Climate Change: A Case Study	2011	Pradip Kumar Nayak	Deepak Khare
49	Restoration of Water Resources in Changing Climate	2011	Rajinder Singh	Deepak Khare
50	Impact of Climate Change on Glaciers : A Case Study of Lunana Region in Bhutan	2011	Leki Dorji	Deepak Khare
51	Impact assessment of catchment dynamics of ground water in a canal command	2012	Ajay Krishna Prabhkar	Deepak Khare
52	Impact of landuse change on runoff in a catchment of hydro power project	2012	Dipetendu Patra	Deepak Khare
53	Decision Support System (DSS) for Urban water management with Climate considerations	2012	Praveen Kumar	Deepak Khare
54	IMPACT OF LANDUSE AND CLIMATE CHANGE ON GROUNDWATER IN UPPER GANGA CANAL	2013	Nitin Mishra	Deepak Khare R.P. Singh
55	Integrated Water Resources Management in	2013	Ishwari Prasad Tiwari	Deepak Khare

<b>SN</b>	<b>Title of the Thesis</b>	<b>Year of Award</b>	<b>Name of Student</b>	<b>Supervisors</b>
	canal Command Area in Terai Region of Nepal			
56	Performance evaluation of Salia irrigation project in changing climate	2013	Rabindranath Sethi	Deepak Khare P.C. Nayak
57	Water management of minor irrigation project in changing climate	2013	A.Ram Prasad Rao	Deepak Khare
58	Assessment & Improvement of Irrigation efficiency of Satiguda Medium Irrigation Project of Odisha in changing climate	2014	Sandeep Kumar	Deepak Khare
59	GIS Based Evaluation Of Ground Water Potential Zone & Site Suitability For Soil-Water Conservation	2014	Harsh Vardhan Singh	Deepak Khare
60	Restoration Plan Of An Earth Dam: A Case Study	2014	Pritam Chetan Pothal	Deepak Khare
61	Integrated Flood Management In Climate Change Scenario- A Case Study Of Bagmati River Basin	2014	Amrendra Kumar	Deepak Khare
62	Impact of Climate Change on Stream Flow : A case study	2015	Pratibha	Deepak Khare Ashok Khariya
63	Water balance study of canal command area	2015	Suresh	S.K. Mishra Deepak Khare
64	Sustainability Assessment of Rural Water Supply Schemes in Uttrakhand	2015	Lt Col Hemant Joshi	M.L. Kansal Deepak Khare
65	Impact Assessment Of Land Use And Climate Changes On Groundwater In Rushikulya River Basin Of Odisha	2015	Rasmita Kumari Sahu	Deepak Khare
66	Water Availability Improvement Through Canal Lining: A Case Study	2015	Gurmeet Singh	Deepak Khare
67	Estimation Of Seepage Losses In Canal Irrigation System: A Case Study	2015	Kumar Gaurav	Deepak Khare
68	Glacial Lake Identification By Image Processing Software And Listing Of Potentially	2015	Lalan Kumar Jha	Deepak Khare

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
	Dangerous Lakes In A Basin			
69	Filtration and Sustainability of water Quality in Roof-Top Rainwater Harvesting	2016	Sakshi Gupta	Deepak Khare
70	Environmental Flow assessment in lower reach of Mahanadi Basin and its distributaries.	2016	Sangitarani Sahoo	Deepak Khare PK Mishra, NIH
71	Analysis of cloud Burst Events Using Archived Multi-Satellite Precipitation Estimates.	2016	Ashish Chaudhary	Deepak Khare
72	Conjunctive Use of Ground Water and Surface Water – A Case study of Nepal	2016	Bhakta Kumar Lal	Deepak Khare
73	Integrated Water Management in Sunei Medium Irrigation Project in Changing Climate	2016	Satyapriya Behera	Deepak Khare PK Mishra, NIH
74	Hydrological Modeling of Urban Catchment in Changing Climate Using SWAT Model	2017	Mr. Afera Halefom Teka	Deepak Khare
75	Hydrological Modeling of Urban Area By Considering Land Use And Climate Change	2017	Mr. Ermias Sisay Brhane	Deepak Khare
76	Watershed Management in Changing Climate- A Case Study of Nepal	2017	Mr. Amar Bahadur Pal	Deepak Khare PK Mishra, NIH
77	Study of Cavitation Erosion Resistance of Different Materials Using ASTM G134	2017	Mr. Ankit Kumar	Deepak Khare
78	Study the Cavitation Erosion Resistance of Different Turbine Blade MAT Using ASTM G 32	2017	Mr. Pawan Kumar Yadav	Deepak Khare
79	Performance Evaluation of Lift Irrigation Scheme : A	2017	Mr. Ram Babu Sah	Deepak Khare

SN	Title of the Thesis	Year of Award	Name of Student	Supervisors
	Case Study of Koshi Pump Canal System Nepal			
80	Ground Water Management for Sustainable Development – A Case Study of Nepal	2017	Mr. Sunil Shah	Deepak Khare PK Mishra, NIH
81	Water Management in a Smart City: A Case Study	2018	Love Shankar Bharti	Deepak Khare Manish Nema, NIH
82	Assessment of Agricultural Productivity Indicators : A Case Study	2018	Rahul Patidar	Deepak Khare
83	Water Resources Management in Upcoming City – A Case Study of Amaravati	2018	Andra Sai Kumar	Deepak Khare
84	Urban Water Management in Changing Climate – A Case Study	2018	Chintawar Abhishek Anil	Deepak Khare
85	Rain Water Harvesting – A Case Study Ghana	2018	Collins Andoh	Deepak Khare
86	Impact Assessment of Irrigation in M.P. : Case Study	2018	Sagar Patel	Deepak Khare
87	Optimum Utilization of Water Resources – A Case Study	2018	Shivananda D. M.	Deepak Khare PK Mishra, NIH
88	Sustainable Water Management for Smart City – A Case Study of Bengaluru	2018	Thirumalesha D.V.	Deepak Khare PK Mishra, NIH
89	Interlinking of Rivers – A Case Study	2018	Anshul Jain	Deepak Khare Manish Nema, NIH
90	Rainwater Harvesting: Case Study Tanzania	2018	Msafiri Mussa Mtanda	Deepak Khare

#### **Under Graduate Projects (Guided)**

**=04**

#### **At SGSITS Indore**

- (1) Determination of Aquifer Parameters Using Computer (A Case Study)
- (2) Ground water withdrawals: An overview of Indore City
- (3) Design of Drainage for Storm Water (College Campus)
- (4)** Rainwater Harvesting: An overview of Indore