

प्रशा.अनु.रा.ज.स./Admn. Section, NIH

डायरी नं./Diary No. 504

दिनांक/Date. 24/06/15

ER Sheet Data Entry Form

Basic Data

Officer ID No. Details 0320

Service	CSS	Cadre	Sub Cadre	Id No.	will be allotted by CS Division, LNR
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Select List Year (Allot Year)

Name Details

Title	First Name	Middle Name	Sur Name
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My <input checked="" type="checkbox"/>	RAHUL	KUMAR	JAIWAL	Initials	RKJ
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CSL No./ SCSL No: (if known)	-
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Sex	<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	Date of Birth	17-06-1967	Date of Retirement	17-06-2027
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Community	JAIWAL	Religion	HINDU
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Father's Name	SRI RAMESH CHANDRA JAIWAL
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Birth Details

Birth Place	KHURAI	Birth State/UT	M.P.	Nationality	INDIAN
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Birth District	SAGAR	Mother Tongue	HINDI
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Domicile	M.P.	Physically Handicap Status	
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Blood Group	AB ⁻	Identification Marks	CUT ON HEAD
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Marital Details

Marital Status	MARRIED	Spouse Name	SMT. LALIT JAIWAL
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Spouse Nationality	INDIAN
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Joining Details

Source of Recruitment	Test + Interview	Joining Date	19-10-1991	Retirement Details	17-06-2027
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Departmental Examination Details NIL

Level	Year	Rank
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1

2

3

Detail of deputation (if applicable) -NIL

Name of the office	Post held at that time in parent office	Name of post (selected for deputation)	Period of deputation	
			Since	From

Detail of Foreign visit

Sl. No.	Place of visit	Date of visit	Post held at that time	Weather it is a personal or official visit	Detail of visit
1	Seoul South Korea		Scientist-C	official	Attend SAARC special training on "Hydro-Infrastructure Development + Management" from Oct 12 to Nov 01, 2014

Transfer/Posting detail (if applicable)

Place	Period of posting	
	Since	From
1) Patna Regional Centre NIH	Oct 1991	July 1998

- 2) Regional Centre July 1998 Contⁿ
NIH, Bhopal/SAGAR

Qualification (Use extra photocopy sheets for null qualifications, experience, training, awards details)

Qualification	Discipline		Specialization 1	
M.E.	Hydrology		Watershed Management	
Year	Division	CGPA		Specialization 2
2000	1st (Hons)	92%		
Institution	University	Place	Country	
Dept. of Hydrology	U.O.R, Roorkee New 117 Roorkee	Roorkee	India	
Experience Please See Annexure-I for Experience & Education Qualification				
Type of Posting		Level		
<input type="checkbox"/>		<input type="checkbox"/>		
Designation		Present Position		
<input type="checkbox"/>		<input type="checkbox"/>		
Ministry		Department		
Office		Place		
Experience Subject		Period of Posting		
Major	Minor	From	To	

Note:-Refer the Annexure to fill above Major, Minor Subjects and below given training subject

Training

Training Year	Training Name		Training Subject	
Level	Institute Name, Place	Field Visit Country	Field Visit Place (within India)	
<input checked="" type="checkbox"/>				
Sponsoring Authority	Period of Training		Duration	Result
	From	To	(in Weeks)	<input type="radio"/> Qualified <input type="radio"/> Not Qualified

Awards/Publications Please See Annexure II for Publication details

Type of Activity :	<input checked="" type="checkbox"/> Academic	<input type="checkbox"/> Non Academic
Activity Area	Activity Subject	Activity Title
Research & Development <input checked="" type="checkbox"/>	Hydrological modeling, Remote Sensing + GIS, Climate change reservoir sedimentation + watershed planning	
Day	Month	Year

Note: (i) Concerned CSS officer is responsible for the correctness of information sent through ER Sheet proforma.

(ii) Subject to verification by the concerned administrative authorities.

Date: 17/6/2015 Place: Bhopal

Information checked and verified - by

J. Bhandari
Signature of Officer

Section Officer	Ministry/Department	
E-mail Id	Room No.	Building Name :
Phone No.	Wing No.	

Remarks (if any)					
Language Known					
		Read	Write	Speak	
Indian Languages Known	1	Hindi	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>
	2		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	3		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	4		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	5		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Foreign Lang. Known	1	English	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>
	2		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	3		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Address Details					
Permanant Address	Near Hemant Talkies, Bhagat Singh Ward		City	Khurai	
	State/UT	M.P.	Pin Code	470117	
Present Contact Address	Flat No 308, B-Block, SPT-II Near Signature, Kolar Road Bhopal		City	Bhopal	
	State/UT		Pin Code	462042	
	Phone (Off)	0755-249243	Fax.	0755-2491218	
	Phone(Res)	9425655193	Mob No	9424459779	
	E-Mail (Mandatory)	rkjaiswal_sagar@yahoo.co.in, rkjaiswal.nih@gmail.com			

ANNEXURE I: Information about Educational Qualification, Research Experience, Papers Published

Educational Qualification

Qualification	Discipline	Specialization	Year	Division	CGPA/%	University	Place	Country
B.E.	Civil	Civil	1990	First (Hons)	67%	A.P.S. University Rewa	Rewa (M.P.)	India
M.E.	Hydrology	Watershed Management	2000	First (Hons)	92%	University of Roorkee, Now IIT Roorkee	Roorkee	India
PhD (pursuing)	Civil	-	-	-	-	MANIT Bhopal	Bhopal	India

Area of Specialization

Rainfall Runoff & Sediment Modeling, Watershed Prioritization for Soil Conservation, Environment Impact Assessment, Remote sensing and GIS Applications, CAT Planning, Water Availability Studies, Watershed Management, Climate Change Studies

Experience

Research (25 Years)

1. Scientist-C National Institute of Hydrology, Jal Vigyan Bhavan, Roorkee, Uttarakhand, India from June 2011 till date
2. Scientist-B, National Institute of Hydrology, Jal Vigyan Bhavan, Roorkee, Uttarakhand, India from Aug 2005 – June 2011.
3. PRA, National Institute of Hydrology, Jal Vigyan Bhavan, Roorkee, Uttarakhand, India from Feb 2002 – Aug 2005.
4. SRA, National Institute of Hydrology, Jal Vigyan Bhavan, Roorkee, Uttarakhand, India from Sept 1991 – Feb 2002.

Technical Papers Published/Accepted

1. International Journal – 30
2. National Journal – 30
3. International Conference/Symposium/Seminar/Workshop – 20
4. National Conference/Symposium/Seminar/Workshop – 25

M. Tech Thesis Guidance

Two students from Maulana Azad National Institute of Technology Bhopal, Four students from Jawaharlal Nehru Krishi Vishvavidalaya (JNKV), Jabalpur, Seven students from Banaras Hindu University (BHU) Varanasi guided as Co-guide for M. Tech dissertation work

Reports Completed

Thirty Five technical reports covering different aspects of water resources and hydrology have been completed for National Institute of Hydrology, Roorkee

Book Edited

H. L. Tiwari, S. Sureh, R. K. Jaiswal (2014). Hydraulics, Water Resources, Coastal and Environmental Engineering Vol. I & II, Excellent Publishing House, New Delhi

Consultancy/Sponsored Research Projects

1. Water Budgeting in the Barrages in river Shipra for Simhastha-2004 – **Funded by Mela Authority, Ujjain.**
2. Identification of Suitable Sites for Water Storage Structures in Rehli and Garhakota Tehsils in Sagar District – **Funded by District Administration, Sagar.**
3. Study of reservoir sedimentation, impact assessment and development of catchment area treatment plan for Kodar reservoir in Chhattisgarh state – **World Bank Funded Purpose Driven Studies under Hydrology Project Phase II.**
4. Water availability study and supply-demand analysis in Kharun sub-basin of Seonath basin in Chhattisgarh state – **World Bank Funded Purpose Driven Studies under Hydrology Project Phase II.**
5. National Program on Isotope Fingerprinting of Waters in India (IWIN) – **DST Funded Project**
6. Study of Hydrological and Hydro-geological Aspects of the Korba Power Project in Chhattisgarh to Assess Water Source Sustainability- **West Korba Power Project Ltd, Raigarh (Chhattisgarh)**
7. Study of Hydrological and Hydrogeological Aspects of Jhabua Power Project in Madhya Pradesh to Assess Water Source Sustainability - **Jhabua Power Limited, Gurgaon (Haryana)**
8. Assessment of impact of coal mining from Mahan coal block on groundwater recharge and sedimentation in Rihand Reservoir and to suggest appropriate measures to mitigate the identified impacts- **Mahan Coal Ltd, Waidhan, Singroli (M.P.).**

Special Achievements

The Hemprabha-S N Gupta Medal has been awarded by the **Institution of Engineers, Calcutta** for the paper titled **"Waterlogged Area Mapping of Mokama Group of Tals using Remote Sensing and GIS"** in 1999.

Consolation prize for best paper has been awarded for paper "Ken Nadi Tantra ke Sonar evam Bearma Up-bhivajako me Dainik apwah ke Akado ka anukaran" in **National Conference on Bharat-Varsh ke Aviral Vikash me Jal Sansadhano ki Bhumika**, Sept, 26-27, 2007, NIH, Roorkee.

Joint Organizing Secretary of **Nineteenth International Conference on Hydraulics, Water Resources & Environmental Engineering (HYDRO 2014 International)** at MANIT Bhopal during Dec 18-20 2014.

Membership

1. Member, International Association of Hydrological Sciences, U.K.
2. Associated Member, Institution of Engineers, Kolkata, India.
3. Life Member, Indian Water Resources Society, Roorkee, India
4. Life Member, Indian Association of Hydraulics (ISH), India
5. Member, WES NET India

Workshop, Training Course, Seminar, Conference Attended

Twenty seven training course/workshop/conference have been attended including **11-weeks training on Remote Sensing & GIS from NRSA, Hyderabad** and one week training **on Arc-GIS at Esri India, New Delhi.**

SAARC Special Training Program on **"Hydro-Infrastructure Development and Management"** at **Seoul, South Korea** from Oct October 12 to November 01, 2014.

Annexure- II: List of Recent Papers (From 2008 onwards) and Reports Published

Papers Published in International Journals

1. Thomas, T., **Jaiswal, R.K.**, Ghosh, N.C., Singh, S. and Galkate, R.V. (2008). "Runoff Modelling for an Experimental Watershed in Bundelkhand Region using GIUH based Clark Model", International Journal of Environment and Development.
2. Singh, S., Ghosh, N.C., Pandey, R.P., Galkate, R., Thomas, T. and **Jaiswal, R.K.** (2008). "Numerical Solution of 1D Boussinesq Equation for Water Table Fluctuation between Drains in response to Recharge and ET in a Sloping Aquifer", Int. J of Ecological Economics & Statistics (IJEES).
3. Thomas, T., **Jaiswal, R.K.**, Ghosh, N.C., Singh, S. and Galkate, R.V. (2008). "Runoff Modelling for an Experimental Watershed in Bundelkhand Region using GIUH based Clark Model", International Journal of Environment and Development.
4. **Jaiswal R.K.**, Thomas, T., Ghosh, N.C., Galkate, R.V., Singh, S. (2009). "GIUH based Regional Rainfall-Runoff Model for Un-gauged Watersheds in Bundelkhand Region of Madhya Pradesh, India" Accepted in International journal of Water Resources and Environmental Management.
5. **Jaiswal, R.K.**, Nayak, T.R., Thomas, T., Galkate, R.V., Singh, S. (2009). "Assessment Of Sedimentation in Ravishankar Sagar Reservoir Using Digital Image Processing Techniques" Accepted in International Journal of Environmental Research and Development.
6. Thomas, T., **Jaiswal, R.K.**, Galkate, R.V., Singh, S. and Ghosh, N.C. (2009). "Development of Rainfall-recharge Relationship for a Fractured Basaltic Aquifer in Central India", International Journal of Water Resources Management, published online; doi 10.1007/S11269-009-9425-2.
7. Thomas, T., Ghosh, N.C., **Jaiswal, R.K.**, Galkate, R.V. and Singh, S. (2009). "Influence of Spatial Heterogeneity and Land Use on Soil Water Infiltration and Hydraulic Conductivity-Case Studies", International Journal of Water Resources and Environmental Management.
8. Thomas, T., **Jaiswal, R.K.**, Galkate, R.V., Singh, S. and Ghosh, N.C. (2009). "A water balance approach for sustainable management of groundwater in Sagar block, Bundelkhand region, Madhya Pradesh", ICFAI University Journal of Soil & Water Resources.
9. **Jaiswal, R.K.**, Thomas, T. and Galkate, R.V. (2010). "Assessment of reservoir sedimentation pattern for environmental planning in Rajaval reservoir of Gujarat (India), International Journal of Applied Environmental Sciences, 5(4), 529-540.
10. **Jaiswal, R.K.**, Thomas, T., Galkate, R.V. and Singh, S. (2010). "Revised capacities and pattern assessment in Rajaval and Khari reservoirs of Gujarat (India)", ICFAI University Journal of Soil & Water Sciences, Vol. 3, No. 4, 7-19.
11. Kumar, B., Rai, S.P., Kumar, U.S., Verma, S.K., Garg, P., Kumar V.V., **Jaiswal, R.K.**, Purendra, B.K., Kumar, S.R., Pande, N.G. (2010), "Isotopic characterization of Indian precipitation", Water Resources Research, doi: 10.1029/2009WR008532.
12. Rajoriya, S., **Jaiswal, R.K.** and Galkate, R.V. (2010), "Estimation of surface and groundwater resources in Sagar, Madhya Pradesh, India, Journal of Environmental Research and Development, Vol. 5, No. 3A, 825-829.
13. **Jaiswal, R.K.**, Thomas, T. and Galkate, R.V. (2011). "Regional flood frequency modeling for a basin of central India", Journal of Flood Engineering, Vol. 2, No. 1, Jan-Jun 2011, 61-78.
14. **Jaiswal RK**, Thomas T, Galkate RV, Jain SK (2012) Assessment of Revised Capacities & Trend Analysis of Sediments in Reservoirs of Southern Gujarat (India) International Journal of Water Resources and Environment Management (IJWREM), 3(2), 155-165.
15. Galkate RV, **Jaiswal RK**, Thomas T and Singh S (2012) Hydrological investigations and water resources management for wildlife sanctuary in central India, International Journal of Hydrology Science and Technology, 2(4), 325-341.
16. Thomas T, **Jaiswal RK**, Ghosh NC, Galkate RV (2012) Impact Assessment Analysis of Conservation Measures for sustainable Development of Degraded Watershed in Bundelkhand Region, International Journal of Water Resources and Environment Management (IJWREM), 3(1), 99-109.
17. Krishan G., M.S. Rao, **R.K. Jaiswal**, B. Kumar, C.P. Kumar (2013) " Southwest (SW) monsoon dynamics study in Indo-Gangatic Plains using isotopic techniques" Journal of Geology and Geosciences, <http://dx.doi.org/10.4172/jgg.1000119>.
18. **Jaiswal, R.K.**, T. Thomas, R.V. Galkate, N.C. Ghosh, A.K. Lohani, and Rakesh Kumar (2013) "Development of geomorphology based regional Nash model for data scarce central India region", Water Resources Management, DOI 10.1007/s11269-013-0486-x.
19. **Jaiswal R.K.**, T. Thomas, R.V. Galkate, N.C. Ghosh, and S. Singh (2013) "Watershed prioritization using Saaty's AHP based decision support for soil conservation measures", Water Resources Management, DOI 10.1007/s11269-013-0494-x, 2013.

20. **Jaiswal R.K.**, T. Thomas, R.V. Galkate, and J. Tyagi (2013) "Soil water retention modeling using pedotransfer functions", *ISRN Journal of Civil Engineering*, <http://dx.doi.org/10.1155/2013/208327>, 2013.
21. **Jaiswal R.K.**, T. Thomas, R.V. Galkate, N. C. Ghosh, and S. Singh (2014) "Reservoir operation & planning using MIKE BASIN in drought affected Bundelkhand region of M.P. (India)" *International Journal of Earth Science and Engineering*, 07(01): 349-355, 2014.
22. Krishan G, MS Rao, B Kumar, CP Kumar, S Kumar, **R.K. Jaiswal**, Y. R. S. Rao, S. Tripathi, M. Kumar, P. K. Garg and P. Kumar (2014) Monitoring of Southwest Monsoon Using Isotope Analysis of Ground Level Vapour (Glv) in Indian Sub-Continent. *J Earth Sci Clim Change* 5: 224. doi:10.4172/2157-7617.1000224.
23. **Jaiswal R. K.**, H. L. Tiwari, A. K. Lohani (2014). Trend Assessment For Extreme Rainfall Indices in the Upper Mahanadi With Reference To Climate Change. *International Journal of Scientific Engineering and Technology*, www.ijset.com: 93-99
24. **Jaiswal R. K.**, N. C. Ghosh, Poonam Guru and Devakant (2014) "MIKE BASIN Based Decision Support Tool for Water Sharing and Irrigation Management in Rangawan Command of India", *Advances in Agriculture*, <http://dx.doi.org/10.1155/2014/924948>.
25. T. Thomas, **R. K. Jaiswal**, P. C. Nayak, N. C. Ghosh (2014) "Comprehensive evaluation of the changing drought characteristics in Bundelkhand region of Central India" *Meteorol Atmos Phys*, DOI 10.1007/s00703-014-0361-1.
26. B. Prasad, **R. K. Jaiswal**, H. L. Tiwari (2014). Assessment of Environmentally Stressed Areas for Soil Conservation Measures Using USPED Model, *International Journal of Engineering Research*, www.ijer.in: 58-62
27. C. D. Mishra, **R. K. Jaiswal**, A. K. Nema (2014) Prioritization of a Watershed Based on spatially distributed parameters, *International Journal of Engineering Research*, www.ijer.in: 70-75
28. **Jaiswal R. K.**, N. C. Ghosh, R. V. Galkate, T. Thomas (2015) "Multi Criteria Decision Analysis (MCDA) for watershed Prioritization", *Aquatic Procedia*. 4: 1553 – 1560.

Papers Published in National Journals

1. **Jaiswal, R.K.**, Thomas, T., Galkate, R.V., and Singh, S. (2008). "Geomorphology Based Rainfall-Runoff Modeling in Small Watershed", *Journal of Indian Water Resources Society*, 28(2), 20-25.
2. Singh, S., Galkate, R. V., Thomas, T. and **Jaiswal R. K.** "Assessment of water quality and trophic status for utilization of Sagar lake", accepted for publication in the *Journal of Indian Water Resources Society*, Roorkee.
3. Galkate, R.V., Thomas, T., Pandey, R.P. and Singh, S. and **Jaiswal, R.K.** (2008). "Assessment of Rainwater Availability and Planning for Water Resources Development in Chhindwara District of MP, India", *Journal of Indian Water Resources Society*, 28(2), 6-14.
4. Thomas, T., **Jaiswal, R.K.**, Galkate, R.V. and Bhar, A.K. (2008). "Development of a Monthly Rainfall-Runoff Model for Wainganga River Basin in Madhya Pradesh", *Journal of Applied Hydrology*, Visakhapatnam.
5. Galkate, R.V., Thomas, T., Pandey, R.P. and Singh, S. and Jaiswal, R.K. (2008). "Assessment of Rainwater Availability and Planning for Water Resources Development in Chhindwara District of MP, India", *Journal of Indian Water Resources Society*, 28(2), 6-14.
6. Singh, S., Galkate, R. V., Thomas, T. and **Jaiswal R. K.** (2008) "Assessment of water quality and trophic status for utilization of Sagar lake", *Journal of Indian Water Resources Society*, 28(1), 29-35.
7. **Jaiswal, R.K.**, Thomas, T., Galkate, R.V., and Singh, S. (2008). "Geomorphology Based Rainfall-Runoff Modeling in Small Watershed", *Journal of Indian Water Resources Society*, 28(2), 20-25.
8. Thomas, T., **Jaiswal, R.K.**, Galkate, R.V. and Singh, S. (2009). "Artificial Neural Network Based Modeling of Stream Flows for Sindh Basin in Madhya Pradesh", *Journal of Indian Water Resources Society*, Vol. 29 (1), 8-16.
9. Thomas, T., **Jaiswal, R.K.**, Galkate, R. and Singh, S. (2009). "Estimation of Revised Capacity in Shetrunji Reservoir using Remote Sensing & GIS", *Journal of Indian Water Resources Society*, Roorkee.
10. Thomas, T., **Jaiswal, R.K.**, Galkate, R.V. and Singh, S. (2009). "Artificial Neural Network Based Modeling of Stream Flows for Sindh Basin in Madhya Pradesh", *Journal of Indian Water Resources Society*, Vol. 29 (1), 8-16.
11. Thomas, T., **Jaiswal, R.K.**, Singh, S., and Bhar, A.K. (2010). "Trend Identification and Stochastic Modelling of Groundwater Levels in Sagar District of Madhya Pradesh", *The Journal of Indian Association of Hydrologists*, 32(3-4), 306-313.

12. **Jaiswal, R.K.**, Thomas, T., Galkate, R.V. and Ghosh, N.C. (2011), Geomorphology Based Nash Model for Watersheds in Sonar River Basin (M.P.)", Journal of Indian Water Resources Society, Vol. 31, No. 3-4, 1-7.
13. **Jaiswal R.K.**, T. Thomas, R.V. Galkate, N.C. Ghosh, and S. Singh (2014) "Catchment area treatment (CAT) plan and crop area optimization for integrated management in a water resource project", J of Institution of Engineers, DOI 10.1007/s40030-014-0052
14. Poonu Guru, **R. K. Jaiswal**, Devakant, K. L. Mishra (2014), Reservoir Operation and Irrigation Management using MIKE BASIN Model for Rangawan Reservoir, Journal of Indian Water Resources Society, 34(4): 1-8.

Papers published in International Conferences/Seminars/Symposium:

1. **Jaiswal, R. K.**, Thomas, T., Nayak, T. R., and Bhar, A. K. (2005). "Application of Remote Sensing and GIS for Groundwater Potential Area Mapping", Proc. of the 25th International Cartographic Congress on Bridging the Digital Divide and Taking Cartography to Grass Root Level', Dr. Hari Singh Gaur University, Sagar, Nov. 28 to Dec. 01, 2005.
2. Thomas, T., **Jaiswal, R. K.**, and Bhar, A. K. (2005). "Estimation of SCS-CN for Runoff Prediction of a Watershed Using Remote Sensing Techniques", Proc. of the 25th International Cartographic Congress on Bridging the Digital Divide and Taking Cartography to Grass Root Level', Dr. Hari Singh Gaur University, Sagar, Nov. 28 to Dec. 01, 2005.
3. Thomas, T., **Jaiswal R. K.** and Singh, S. (2006). "Hydrologic Modelling of Stream flows using Artificial Neural Networks", published in the International Conference on Hydrology and Watershed Management, Dec 05-08, 2006, Centre for Water Resources, JNTU, Hyderabad.
4. Nayak, T.R & **Jaiswal, R. K.** (2006). "Sedimentation Assessment in Tawa Reservoir using RS & GIS Technique", International Symposium on Geospatial Data for Sustainable Development, Goa, Sept 27-30, 2006.
5. Thomas, T., **Jaiswal R. K.** and Singh, S. (2006). "Hydrologic Modelling of Stream flows using Artificial Neural Networks", published in the International Conference on Hydrology and Watershed Management, Dec 05-08, 2006, Centre for Water Resources, JNTU, Hyderabad.
6. **Jaiswal R. K.**, Thomas, T., Singh, S., and Galkate, R. V. (2006). "Preparation of Management Plan to control Soil Erosion in a Watershed", published in the proceedings of the National Conference on Application of Remote Sensing and GIS in Resource Management, Bundelkhand University, Jhansi Feb 25-26, 2006,
7. **Jaiswal, R.K.**, Thomas, T., Galkate, R.V., Singh, S. and Ghosh, N.C. (2009). "Surface and Groundwater Resources Development in Basaltic Region of Madhya Pradesh (India) - A case study of Tumri Watershed ", *FSES 2009* at IIT Kharagpur during December 17-19, 2009.
8. Thomas, T., **Jaiswal, R.K.**, Galkate, R.V., Singh, S. and Ghosh, N.C. (2009). "A Comprehensive Management Plan for a Degraded Watershed in Bundelkhand Region of M.P., India", *International Conference on Water, Environment, Energy and Society (WEES-2009)*, New Delhi (India), Jan 12-16, 2009, 1872-1880.
9. Galkate, R.V., Thomas T., **Jaiswal, R.K.**, Singh, S. and Ghosh, N.C. (2009). "Water Resources Management Plan for Naoradehi Wildlife Sanctuary", *FSES 2009* at IIT Kharagpur during December 17-19, 2009.
10. **Jaiswal, R.K.**, Galkate, R.V., Thomas, T., Ghosh, N.C. and Singh, S. (2010). "Remote sensing & GIS based assessment of revised capacities in reservoirs of central India", 3rd International Conference on Hydrology and Watershed Management with Focal Theme on Climate Change – water food and environmental security (ICHWAM), 3-6 February, 2010, JNTU, Hyderabad.
11. Thomas, T., **Jaiswal, R.K.**, Galkate, R.V., Ghosh, N.C. and Singh, S. (2010). "Modelling of runoff and soil erosion processes in a degraded watershed for the development of watershed management plan", 3rd International Conference on Hydrology and Watershed Management with Focal Theme on Climate Change – water food and environmental security (ICHWAM), 3-6 February, 2010, JNTU, Hyderabad.
12. Galkate R.V., Thomas, T., Pandey, R.P., Singh, S. and **Jaiswal, R.K.** (2010). Drought study in Chhindwara district of Madhya Pradesh, India", 3rd International Conference on Hydrology and Watershed Management with Focal Theme on Climate Change – water food and environmental security (ICHWAM), 3-6 February, 2010, JNTU, Hyderabad.

13. Thomas, T., Galkate, R.V., and **Jaiswal, R. K.** (2010). "Daily Runoff Simulation for Sonar and Bearma Basins of Ken River System", International Workshop on River Management (IWRM), Dec 14-16, 2010, New Delhi, pp. 253-264.
14. Galkate, R.V., Thomas, T., and **Jaiswal, R. K.** (2010). "Low flow analysis in Kharun river of Chhattisgarh State", International Workshop on River Management (IWRM), Dec 14-16, 2010, New Delhi.
15. Nema, A.K., Deharia, D.K. and **Jaiswal, R.K.** (2012). "Prioritization of Sub-watersheds on the Basis of Soil Loss (USLE) using Remote Sensing and Geographic Information System", Abstract pub. In International Symposium on Grain Storage, Feb, 27-29, 2012, Pantnagar (India).
16. Krishan G., A. K. Lohani, M.S. Rao, C.P. Kumar, B. Kumar, Y.R.S. Rao, **R.K. Jaiswal**, R.J. Thayyen, S. Thripathi, "Geospatial correlation of isotopes in air moisture along the southwest monsoon transect in the Indian sub- continent", International Conference & Exhibition on Integrated Water, Waste Water & Isotope Hydrology (CE-WWISH), July 25-27 2013.
17. Galkate, R.V., **R. K. Jaiswal**, T. Thomas, and T. R. Nayak, "Rainfall runoff modelling using conceptual NAM model", 3rd International Conference on Sustainability and Management Strategy (ICSMS-2014), Institute of Management and Technology, Nagpur, March 21-22, 2014.

Papers published in National Conferences/Seminars/Symposium:

1. **Jaiswal, R. K.** Thomas, T., Nayak, T. R., and Bhar, A. K. (2005). "Application of Remote Sensing and GIS for Groundwater Potential Area Mapping", Proc. of the 25th International Cartographic Congress on Bridging the Digital Divide and Taking Cartography to Grass Root Level', Dr. Hari Singh Gaur University, Sagar, Nov. 28 to Dec. 01, 2005.
2. Thomas, T., **Jaiswal, R. K.**, and Bhar, A. K. (2005). "Estimation of SCS-CN for Runoff Prediction of a Watershed Using Remote Sensing Techniques", Proc. of the 25th International Cartographic Congress on Bridging the Digital Divide and Taking Cartography to Grass Root Level', Dr. Hari Singh Gaur University, Sagar, Nov. 28 to Dec. 01, 2005.
3. **Jaiswal R. K.**, Thomas, T., Singh, S., and Galkate, R. V. (2006). "Preparation of Management Plan to control Soil Erosion in a Watershed", published in the proceedings of the National Conference on Application of Remote Sensing and GIS in Resource Management, Bundelkhand University, Jhansi Feb 25-26, 2006.
4. Nayak, T.R & **Jaiswal, R. K.** (2006). "Sedimentation Assessment in Tawa Reservoir using RS & GIS Technique", *International Symposium on Geospatial Data for Sustainable Development*, Goa, Sept 27-30, 2006.
5. Thomas, T., **Jaiswal R. K.**, Galkate, R. V., and Singh, S. (2007). "Ken Nadi Tantra ke Sonar evam Bearma Up-bhivajakon men Apwah ke Dainik Aakadon ka Abhikalpan", *National Symposium in Hindi on Bharat varsh ke Aviral Vikash me Jal Sansadhan ki Bhumika*, Sept 26-27, 2007. **Awarded the Consolation price for the best paper.**
6. Verma, S. K., Garg, P., Ahmed, J., Gupta, R., Pandey, N., **Jaiswal, R. K.**, Vardarajan, M., (2007) 'Varsha Jal Evam Bhooyal mein Samisthanakon ka Kshetriya Sanjal' National Symposium in Hindi on Bharat varsh ke Aviral Vikash me Jal Sansadhan ki Bhumika', Sept 26-27, 2007.
7. Jaiswal, R.K., Thomas, T., Galkate, R.V., Singh, S. and Ghosh, N.C. (2008). "Assessment of Soil Loss in a Degraded Watershed of Bundelkhand Region", Thirteenth National Symposium on Hydrology, New Delhi, Aug. 28-29, 2008.
8. Jaiswal, R.K., Thomas, T., Singh, S. and Galkate, R.V. (2008). "Assessment of Revised Capacity of Khari Reservoir using Remote Sensing and GIS", **National Seminar on Conservation and Restoration of Lakes (CAROL-2008)**, Nagpur, Oct 16-17, 2008, 551-562.
9. Thomas, T., Jaiswal, R.K., Galkate, R.V. and Singh, S. (2008). "A Case Study on the Infiltration Modeling in Upper Bhopal Lake Catchment" **National Seminar on Conservation and Restoration of Lakes (CAROL-2008)**, Nagpur, Oct 16-17, 2008, 155-164.
10. Galkate, R.V., Singh, S., Thomas, T. and Jaiswal, R.K. (2008). "Water Balance Study, Water Quality Analysis and Management Plan for Sagar lake", **National Seminar on Conservation and Restoration of Lakes (CAROL-2008)**, Nagpur, Oct 16-17, 2008, 81-94.
11. Singh, S., Galkate, R.V., Thomas, T. and Jaiswal, R.K. (2008). "Water Quality and Trophic Status of Sagar lake for its Restoration, **National Seminar on Conservation and Restoration of Lakes (CAROL-2008)**", Nagpur, Oct 16-17, 2008, 829-840.
12. Thomas, T., Jaiswal R. K., Galkate, R. V., and Singh, S., 'Ken Nadi Tantra ke Sonar evam Bearma Up-bhivajakon men Apwah ke Dainik Aakadon ka Abhikalpan', National Symposium in Hindi on Bharat varsh ke Aviral Vikash me Jal Sansadhan ki Bhumika', Sept 26-27, 2007. Awarded the Consolation price for the best paper.

13. Jaiswal, R.K., Thomas, T., Galkate, R.V., Singh, S. and Ghosh, N.C. (2008). "Assessment of Soil Loss in a Degraded Watershed of Bundelkhand Region", Thirteenth National Symposium on Hydrology, New Delhi, Aug. 28-29, 2008.
14. Jaiswal, R.K., Thomas, T., Singh, S. and Galkate, R.V. (2008). "Assessment of Revised Capacity of Kharo Reservoir using Remote Sensing and GIS", **National Seminar on Conservation and Restoration of Lakes (CAROL-2008)**, Nagpur, Oct 16-17, 2008, 551-562.
15. Thomas, T., Jaiswal, R.K., Galkate, R.V. and Singh, S. (2008). "A Case Study on the Infiltration Modeling in Upper Bhopal Lake Catchment" **National Seminar on Conservation and Restoration of Lakes (CAROL-2008)**, Nagpur, Oct 16-17, 2008, 155-164.
16. Galkate, R.V., Singh, S., Thomas, T. and Jaiswal, R.K. (2008). "Water Balance Study, Water Quality Analysis and Management Plan for Sagar lake", **National Seminar on Conservation and Restoration of Lakes (CAROL-2008)**, Nagpur, Oct 16-17, 2008, 81-94.
17. Singh, S., Galkate, R.V., Thomas, T. and Jaiswal, R.K. (2008). "Water Quality and Trophic Status of Sagar lake for its Restoration, **National Seminar on Conservation and Restoration of Lakes (CAROL-2008)**", Nagpur, Oct 16-17, 2008, 829-840.
18. Jaiswal, R.K., Thomas, T., Galkate, R.V. and Fuskeley, B.K. (2010). "GIS based quick appraisal of groundwater scenario in drought prone Chhatarpur district (M.P.), National Conference on Hydrologic Information System, May 11-12, 2010, Sagar.
19. Jaiswal, R.K., Thomas, T. and Galkate, R.V. (2010), "Geomorphology based sediment production rate (SPR) model for prioritization of watersheds in Nauradehi Wild Life Sanctuary", National Seminar on Application of Geoinformatics for National Development, Nov. 29-30, 2010, Sagar.
20. Thomas, T., Jaiswal, R. K., Galkate, R. V., Ghosh, N. C. & Singh, S (2010). Land Capability based Sustainable Development and Management in Sonar Basin – a Case Study", National Seminar on Applications of Geoinformatics in National Development, November 29 – 30, 2010, Dr. H. S. Gour Central University, Sagar.
21. Jaiswal, R.K., Thomas, T. Galkate, R.V., Ghosh, N.C. and Tyagi, J.V. (2010). "RUSLE based soil loss estimation from a catchment in Bundelkhand region", 14th Symposium on Hydrology with special theme: Management of WR under Drought Condition, Dec 21-22, 2010, Jaipur, (Abstract published).
22. Thomas, T., Ghosh, N. C., Galkate, R. V., Jaiswal, R. K. (2010). "Assessment of Drought Scenario for Water Resources Development in Panna district of Bundelkhand Region", 14th National Symposium on Hydrology, 21-22 December, 2010, Jaipur. (Abstract Published)
23. Galkate, R. V., Pandey, R. P., Thomas, T., Jaiswal, R. K. (2010). "Identification of Meteorological and Hydrological Droughts in Central India", 14th National Symposium on Hydrology, 21-22 December, 2010, Jaipur. (Abstract Published).
24. Jaiswal, R.K., Deharia, D.K., Nema, A.K., Thomas, T. and Galkate, R.V. (2012). "Soil Erosion Based Prioritization and Development of CAT Plan for Catchment : A Case Study of Bundelkhand", National Symposium on water Resources Management is Changing Environment (WARMICE-2012), February 8-9, 2012, National Institute of Hydrology, Roorkee.
25. Thomas, T., Galkate, R.V., Jaiswal, R.K. and Ghosh, N. C. (2012). "Evaluation of Drought Scenario in Sagar and Chhatarpur Districts in Bundelkhand region of Madhya Pradesh", National Symposium on water Resources Management is Changing Environment (WARMICE-2012), February 8-9, 2012, National Institute of Hydrology, Roorkee.
26. R.V. Galkate, Palak Mehta, Jaiswal, R.K. and Thomas, T. (2011). "Water Availability Assessment in Kharun River under Regulated and Virgin Flow Conditions Using MIKE BASIN", National Symposium on water Resources Management is Changing Environment (WARMICE-2012), February 8-9, 2012, National Institute of Hydrology, Roorkee.
27. Krishna G, Rao MS, Jaiswal RK, Kumar B (2012) Observation of Monsoon Dynamics between Roorkee and Sagar using Isotopic Techniques, National Conference on Application of Isotope & Radiation Technology for Societal Benefits (AIRTS-2012), June 21-23, 2012.
28. Jaiswal R.K., T. Thomas, R.V. Galkate, and S. Singh, "Rainfall analysis & assessment of irrigation water in a command of drought affected Bundelkhand region (M.P.) India", National Conference on Sustainable Water Resources and Management (SWARDAM-2013), Aurangabad, September 30 - October 1, 2013
29. Thomas, T., R.K. Jaiswal, and N.C. Ghosh, "Changing climate and persistent drought scenario in Bundelkhand region of Central India", National Conference on Sustainable Water Resources Planning, Management and Impact of Climate Change. BITS Pilani, Hyderabad, 5-6 April, 2013.
30. Thomas, T., R.K. Jaiswal, R.V.Galkate, and N.C. Ghosh, "Drought assessment of Bundelkhand in Central India based on a drought index suited for climate change", National Conference on Sustainable Water Resources and Management (SWARDAM-2013), Aurangabad, September 30 - October 1, 2013.
31. Galkate, R.V., T. Thomas, R. K. Jaiswal, and N. C. Ghosh, "Assessment of droughts in Bina river basin of Madhya Pradesh", National Conference on Sustainable Water Resources and Management (SWARDAM-2013), Aurangabad, September 30 - October 1, 2013.

List of Reports for National Institute of Hydrology, Roorkee

S.N	TITLE OF REPORT	No.
1.	Erosion, Sedimentation and Flooding in River Kosi	SR-26
2.	Evaluation of Precipitation Gauge Density in Punpun Catchment of Ganga River system	TR-180
3.	Sedimentation Problems in Massanjore Reservoir of Mayurakshi River System, West Bengal	CS/AR-151
4.	Geomorphological Characteristics of Punpun Basin of Ganga River System	CS/AR-152
5.	Status of Ground Water Quality in Patna Town	CS/AR-187
6.	Establishment of SCS Runoff Curve Number for Batane Sub Basin of Punpun Basin using IRS-IA LISS II Data Base	CS/AR-190
7.	Delineation of Flooded Area in Mayurakshi Basin using Remote Sensing and Conventional Technique	CS/AR-191
8.	Water logging and Drainage Congestion Problem in Mokama Tal Area, Bihar	CS/AR-194
9.	Waterlogged Area Mapping and Hydrological Data Analysis of Mokama Tal Area	CS/AR-13/96-97
10.	Determination of SCS Runoff Curve Number and Land use Change for Hamidnagar Sub basin of Punpun Basin	CS/AR-14/96-97
11.	Estimation of Runoff from Bewas Basin using SCS Curve Number Model	CS/AR-9/97-98
12.	Rainfall Runoff Modelling for Water Availability Studies in Ken River Basin using SCS-CN model and Remote Sensing Approach	CS/AR-13/97-98
13.	Study of Sedimentation in Bila Reservoir Using Remote Sensing Technique	Completed
14.	Assessment of Sedimentation in Ghatprabha, Gendhi Sagar, Vaigai, Tandula and Lingnamakki Reservoirs Using Digital Image Processing Techniques	CS/AR-1/2002-03
15.	Flood Frequency Modelling of River Parvati in M.P.	Completed
16.	Regional Evaluation of Hydrological Properties of Soil in Sagar District	Completed
17.	Water Budgeting in the Barrages in river Shipra for Simhasta-2004- Funded by Mela Authority, Ujjain	Completed
18.	Erosion Modeling of Bila Reservoir Catchment using USLE and GIS	Completed
19.	Hydrological Modeling of Stream flows in Wainganga Basin in Madhya Pradesh	Completed
20.	Stream flow Forecasting in Sindh River Basin Using Artificial Neural Network	Completed
21.	Assessment of Sedimentation in Ramganga, Rihand, Tungbhadra, Barna and Somsila Reservoirs using Digital Image Processing Techniques	CS/AR-2/2003-04
22.	Development of GIUH for Small Catchments in Sagar District	Completed
23.	Assessment of Sedimentation in Matatila, Tawa, Lower Manair and Nagarjunasagar Reservoirs Using Digital Image Processing Techniques	CS/AR-1/2004-05
24.	Assessment of Sedimentation in Ravishankar Sagar Reservoir Using Digital Image Processing Techniques	Completed
25.	Integrated Water Resources Management Plan for Sustainable Development Plan of Nauradehi Wild Life Sanctuary	Completed
26.	Water Quality Management Plan for Rejuvenation of Sagar Lake	CS/AR-3/2007-08
26.	A Comprehensive Watershed Management Plan for a Degraded Watershed in Bundelkhand Region	CS/AR-1/2008-09
27.	Assessment of Reservoir Sedimentation in Shetrunji Reservoir using Remote Sensing and GIS	Completed
30.	Identification of Suitable Sites for Water Storage Structures in Rehli and Garhakota Tehsils in Sagar District – Funded by District Administration, Sagar	Completed
31.	Integrated Water Resources Management for Catchment and Command of Benisagar and Rangawan Reservoirs in Madhya Pradesh	Completed
32.	World Bank Funded Purpose Driven Study- Study of Reservoir Sediment, Impact Assessment and Development of Catchment Area Treatment Plan for Kodar Reservoir in Chhattisgarh State	Submitted
33.	World Bank Funded Purpose Driven Study -Water Availability Study and Supply-Demand Analysis in Kharun Sub-basin of Seonath Basin in Chhattisgarh State	Submitted