The Department of Electrical Engineering organised a Workshop on May 17-18, 2008 to launch a major initiative of recording ECG of healthy Indian population for developing a reliable data base. The Workshop was inaugurated by Prof. S. C. Saxena, Director. The main resource person was Prof. Peter W. Macfarlane, Professor of Electrocardiology, Univ. of Glasgow, UK.

IIT Roorkee and University of Glasgow, UK signed a Memorandum of Understanding in April 2008 to form a nucleus for excellence in research in the field of Biomedical & Clinical Engineering. Under this MoU, IITR & UoG have agreed to collaborate in the area of electrocardiography through joint efforts to establish a database of ECGs recorded from healthy Indian individuals since no such database is available. Prof. Peter W. Macfarlane of UoG and Prof. Vinod Kumar of IITR will be coordinating this project.

Under the above project Prof. Peter Macfarlane has gifted three ECG machines ATRI6100 to IITR for recording the ECG data. It is planned that ECGs will be collected by three centers i.e. IIT Roorkee, SGGS Institute of Engineering & Technology, Nanded and National Institute of Technology, Jallandhar to take care of variance in ECGs across India. The expertise in these three collaborating Institutes will allow ECGs to be collected in a standardized form.

The Workshop was attended by Doctors of Roorkee Hospitals and Himalayan Institute, Jolly Grant, researchers of IITR, and researchers of other institutions and invited guests. Professor Surendra Kumar, Dean Finance & Planning presented the MoU for exchange between the Director and Prof. Macfarlane.

**Training Programme on Pre-Engineered Buildings**

The Indian Society for Construction Materials & Structures (ISCMS), Roorkee has organized a Short Term Training Programme on Pre-Engineered Buildings on May 20, 2008 at the Prof. O. P. Jain Auditorium, IIT Roorkee. Sri Sunil Kumar Singh, IAS, Joint Secretary (Housing), Ministry of Housing & Urban Poverty Alleviation, Govt. of India was the Chief Guest and Prof. S. C. Saxena, Director, Indian Institute of Technology, Roorkee presided over the Inaugural function.

### Forthcoming Events

<table>
<thead>
<tr>
<th>Event</th>
<th>Organized by</th>
<th>Period</th>
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</thead>
<tbody>
<tr>
<td>Science &amp; Technology Congress 2008</td>
<td>Centre of Excellence in Disaster Mitigation &amp; Management</td>
<td>Nov. 10 - 11, 2008</td>
</tr>
</tbody>
</table>
## Honours and Awards

- **Dr. Arun K. Saraf**, Professor, Department of Earth Sciences, delivered an invited talk entitled "Remote Sensing and GIS Applications in Natural Disaster Management" in the Lal Bahadur Shastri National Academy of Administration (LBSNAA), Mussoorie on April 15, 2008.

- **Dr. Navneet Arora**, Associate Professor, Department of Mechanical and Industrial Engineering has been nominated as outside expert on Board of Post Graduate Studies and Research for a period of two years at Guru Jambheshwar University of Science and Technology, Hisar (Haryana).

- **Mr. Gaurav Bhatnagar**, Research Scholar, Department of Mathematics received "The best paper award" in the Second International Conference on 'Cognition and Recognition (ICCR-2008)' held at Mysore from April 10-12, 2008, for his research paper entitled "A new robust logo-watermarking scheme based on Image Fusion" co-authored with Dr. R. Balasubramanian, Assistant Professor, Department of Mathematics.

- **Dr. R. K. Dutta**, Assistant Professor, Chemistry Department delivered two invited talks at DAE-BRNS Seminar cum Workshop on 'Materials Characterization and Surface Modification in Research and Industry using Ion Accelerators (MCIA)', organized by the Institute of Physics, Bhubaneswar held during March 31 - April 04, 2008. The topics of his lectures were (a) Accelerators for Biosciences and (b) Combination of proton beam writing and nanoimprinting lithography for fast prototyping of micro and nanostructures.

- **Dr. A. K. Saxena**, Professor Department of Electronics & Computer Engineering has been nominated as a member of Research Advisory Committee of CADAC, Noida. His name has also been included as an Honorary Member of the Editorial Board of the International Journal of Bio Sciences and Technology.

- **Dr. Kailas L. Wasewar**, Assistant Professor, Chemical Engineering Department has been nominated as Honorary Member of Editorial Board of International Journal of Biosciences and Technology.

- **Dr. Satyendra Mittal**, Associate Professor, Deptt. of Civil Engg, has been nominated Member of Technical Committee of Bureau of Indian Standards for the Sectional Committee of CED 43 (Soil and Foundation Engg. Sectional Committee).

## Governor's Trophy Won by I.I.T. Roorkee

The first prize in ISIS 2008 was awarded to Ashish Saxena, Chirag Jain and Abhinav Kumar of Agribusiness Management, Pantnagar. Prem Prakash and Tapendu Mandal of IIT Kanpur won the second prize while Puneet Singh Jaggi of IIT Roorkee came third. Professor S. C. Saxena, Director, IIT Roorkee and Chairman, Governing Body of STEP, Roorkee congratulated the winners and distributed the prizes. In his address to the participants, he extolled the virtues of entrepreneurship and its significance in the prosperity of the country. The business plans were judged by a panel of entrepreneurs- experts comprising of Mr. Avnil Dravid of Ojas Ventures, Mr. Sanjay Nagi, Founder, Market Insight, Ms. Amar Aujla, Founder and CEO, Ideawicket.com, Mr. Harshavardhan Dayal, Manager (Financial Advisory Services), Price Waterhouse Coopers, New Delhi, Mr. Atreya Rayaprolu, Vice President, Intellecap, Mr. Pankaj Sharma, Co-Founder, Lead Invent.

Professor Devadutta Das, Coordinator, STEP welcomed the guests and apprised them about the activities of STEP Roorkee in spreading the entrepreneurship culture amongst the student community of IIT Roorkee and also at the national level through it's activities round the year.

## ISIS 2008 BUSINESS PLAN COMPETITION

Science & Technology Entrepreneurship Park (STEP), Roorkee through its Entrepreneurship Development Cell (EDC), organized a National Level Business Plan Competition, ISIS 2008, on 13th April, sponsored by IIT Roorkee – alumni Mr. Pankaj Kumar of Geodesic and Mr. Pradyumna Misra. The objective of organizing such competitions was to encourage budding engineers, technocrats and managers to come up with their innovative ideas for establishing business enterprises. About 120 business plans were received out of which finally 10 plans were shortlisted. The participating teams were from IIT Roorkee, IIT Kanpur, IIT Delhi, IIM Calcutta, JSS Noida, S. P. Jain Institute of Management and Research, NIT Trichy, IRMA-Anand, and CABM Pantnagar.

### Sl. No. Date Name of Organization / Institute Total Prizes

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Date</th>
<th>Name of Organization / Institute</th>
<th>Total Prizes</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
<td>08.12.2007</td>
<td>BEG &amp; C (Chrysanthemum show)</td>
<td>46 Nos.</td>
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<tr>
<td>3.</td>
<td>13.03.2008</td>
<td>C.B.R.I.</td>
<td>43 Nos. 3 Nos. Trophies</td>
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<tr>
<td>4.</td>
<td>16.03.2008</td>
<td>BEG &amp; C (Pushpavali 2008)</td>
<td>46 Nos.</td>
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### Indian Institute of Technology Roorkee

Flower Show “Colours of Spring 2008” was organized at Raj Bhawan, Dehradun on March 8, 2008. I.I.T. Roorkee won the “GOVERNOR’S CHALLENGER TROPHY” for the Best Performance among all Institutes and Organizations of Uttarakhand continuously **Third time** and secured 1st place by winning 30 Prizes.

IIT Roorkee has also won following prizes in various flower shows of the year 2007-08.

### Sri Salek Chand, I.E., receiving Trophy from His Excellency Shri B. L. Joshi, Governor of Uttarakhand

*Governor’s Trophy Won by I.I.T. Roorkee*
**Sponsored Research Projects**

w.e.f. 26.03.2008 to 25.05.2008  (Above 5.00 Lac or More)

- Dr. Vijaya Agarwala, Prof., Met. & Mat. Engg. Department, Development of TiAl based intermetallic matrix Composites for prospective space applications, ISRO Bangalore, Rs. 9.56 lacs.

- Dr. Davinder Kaur, Asstt. Prof., Deptt. of Physics and Centre of Nanotechnology, Synthesis & Characterization of functional Nanostructures for MEMS & Optoelectronic Applications, Ministry of Communications and Information Technology, New Delhi, Rs. 484.00 lacs.


- Dr. Vivek Kumar, Asstt. Prof., Deptt. of Paper Technology, Employment generation through making value added product from pine needles fibers in Uttarakhand Hills, National Council of Rural Institutes, Hyderabad, Rs. 18.60 lacs.

- Dr. R. K. Dutta, Asstt. Prof., Chemistry Deptt., A Quantitative Study on Uptake of Toxic Heavy Metals in Escherichia Coli Cells, BRNS, Mumbai, Rs. 20.58 lacs.

- Dr. Kamaluddin, Prof., Chemistry Deptt., Hematite water system on Mars and its possible role in chemical evolution, ISRO, Bangalore, Rs. 24.70 lacs.

- Dr. P. S. Mishra, Prof., Met. & Mat. Engg. Deptt., To Develop and Characterize Iron Phosphorous Based Alloys by Powder Forging, DRDO, New Delhi, Rs. 43.80 lacs.

- Dr. Pravindra Kumar, Asstt. Prof., Biotechnology Deptt., Structural Studies of Biphenyl Dehydrogenase from Comamonas testosteroni Strain B-336, CSIR, Rs. 10.70 lacs.

- Dr. R. Anbalagan, Prof., Earth Sciences Deptt., “National Geotechnical Facility” at Punch House Campus of Survey of India, 11-C, Circular Road, Dehradun, DST, Rs. 1149.33 lacs.

- Dr. Pradeep Bhargava, Prof., Civil Engg. Department, Creep and Shrinkage Studies on B50A20 grade Concrete used in the Inner Containment (IC) of Kudankulam Nuclear Power Project (KKNPP), Nuclear Power Corporation of India Ltd., Mumbai, Rs. 15.38 lacs.

- Dr. A. A. Kazmi, Asstt. Prof., Civil Engg. Department, Pilot Plant Study for Organics, Nitrogen and Coliform Removal in Sequencing Batch Reactor (SBR), Ministry of Environment & Forest, New Delhi, Rs. 11.50 lacs.


- Dr. Satish Chandra, Prof., Civil Engg. Department, Pedestrian Behavior under Varied Traffic and Spatial Conditions, CSIR, Rs. 15.46 lacs.

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**वेतनाविवर्तन**

(अप्रैल - मई, 2008)

1— डॉ नन्दन शिंधे, सहायक प्रोफेसर, एम्बूआईडी० ई० डी०
2— श्री श्रीदेव, दस्तकार गैंड०, एम्बूआईडी० ई० डी०
3— श्री राधे, विशिष्ट परिचार, सीईआईडी० ई० डी०
Consultancy Projects
w.e.f. 26.03.2008 to 25.05.2008 (Above Rs.1.00 Lac or More)

- Dr. D. K. Paul, EQD, Seismic Analysis for Dam Foundation System for Vishnugadh-Pipalkoti H.E. Project (444-MW), Tehri Hydro Development Corporation Ltd., Ganga Bhawan, Pragati puram, Bypass-Road-Rishikesh, Rs. 7.10 lacs.
- Seismic Stability Analysis of Mullaperiyar Dam-Part-I, Rs. 3.00 lacs.
- Seismic Stability Analysis of Mullaperiyar Dam-Part-II, Rs. 4.00 lacs.
- Seismic Stability Analysis of Mullaperiyar Dam-Part-II, Rs. 3.58 lacs., Chief Engineer, Irrigation Projects-1, Civil Station, Kozikode-20.
- Executive Engineer, Construction Division, Dugdadda, Garhwal, Rs. 5.00 lacs.
- Dr. P. K. Ghosh, MMD, Use of SAILMA Steel for Pressure Shaft,, Mr. P. K. Yadav, DGM-EDRC Hydel ECC Div. L & T Ltd., 12/4 Delhi Mathura Road, Near Sarai Khawaja Chowk, Faridabad, Rs. 1.20 lacs.
- Er. Arun Kumar, AHEC, Performance Testing of Dhelabagh SHP Station (2x500 kW) in Bihar, BSHPC, Sone Bhawan, Birchand Patel Marg, Patna, Rs. 3.00 lacs.
- Dr. R. P. Saini, AHEC, Performance Testing of Nasriganj SHP Station (2x500 kW) in Bihar, BSHPC, Sone Bhawan, Birchand Patel Marg, Patna, Rs. 3.00 lacs.
- Shri R. K. Jain, Arch. & Planning, Civil Hospital Ranikhet, PWD Ranikhet, Rs. 1.02 lacs.
- Dr. Z. Ahmad, CED, Design of Storm Water Drainage for SIDCUL Pantnagar, Executive Engineer, Project Unit (SIDCUL) PWD, Pantnagar, Rs. 1.60 lacs.
- Dr. S. K. Ghosh, CED, DPR of Rae Chatkeshwar Lake Pithoragarh, Uttarakhand Tourism Development Board, Dehradun, Rs. 8.00 lacs.
- Dr. U. C. Kothyari, CED, Hydrological Feasibility Studies for Rae Chatkeshwar, Rs. 2.50 lacs.
- Hydraulic Design for Works on Rae Chatkeshwar, Rs. 8.00 lacs., Uttarakhand Paryatan Vikas Parishad, Dehradun.
- Prof. Parveen Kumar, CED, Scrutiny of PMGSY Proposals for Uttarakhand for Phase VI, National Rural Roads Development Agency, Govt. of India, New Delhi, Rs. 3.51 lacs.
- Prof. M. K. Mittal, CED, River Training Works for the Road Bridge on Dhela River, Moradabad, Executive Engineer, Provincial Division, P.W.D. Moradabad, Rs. 2.00 lacs.
- Dr. Vipul Prakash, CED, Design of 54 M Span Steel Girder Bridge Over Yamuna, Executive Engineer, Lok Nirman Vibhag, Barkot, UK, Rs. 2.70 lacs.
- Dr. A. K. Jain, CED, Proof Checking of Fitness Centre & Pavilion Bldg. for CGW 2010, Executive Engineer, Delhi Development Authority, New Delhi, Rs. 2.60 lacs.
- Dr. Satish Chandra, CED, Post Construction Tests on Roads in Thatude, Executive Engineer, Temporary Division, PWD, Thatte, Rs. 2.37 lacs.
- Dr. Mahendra Singh, CED, Geotechnical Investigations of DPR of Rae Chatkeshwar Lake, Pithoragarh, Uttarakhand Pay Paryatan Vikas Parishad, Patel Nagar, Dehradun, Rs. 4.00 lacs.
- Dr. S. S. Jain, CED, Quality Assurance Work of Aurbindo Marg, PWD Division M-111, Delhi, Rs. 1.87 lacs.
- Dr. Umesh Sharma, CED, Determination of Screening / size factor for concrete mix, A.G.M. Koteshwar Hydro Electric Project, Koteshwarpuram, Rs. 1.02 lacs.
- Dr. V. K. Goel, MIED, Study on Aerodynamic Behaviour of Passenger Train and Development of Aerodynamic Profiles of Coaches and Locomotives to Reduce Wind Resistance, R.D.S.O. Lucknow, Rs. 17.27 lacs.
- Er. Arun Kumar, AHEC, Performance Testing of Upper Awa Hydro Power project (2x2.5 MW) Near Palampur, HP, Astha Projects (India) Limited, Plot No. 226, Phase-III, Jubilee Hills, Hyderabad, Rs. 5.00 lacs.
- Dr. G. Ramasamy, CED, Design of Transmission Line Foundations Moradabad, Executive Engineer, U.P. Power Corporation Ltd. (UPPCL), Moradabad, Rs. 1.50 lacs.
- Dr. N. M. Bhandari, CED, Load Worthiness of Structure of 4 Shops for Proposed EOT Cranes, AGM (PMG), CFFP, BHEL, Haridwar, Rs. 5.25 lacs.
- Dr. Bhupinder Singh, CED, Proof Checking of Design for CT Golden Group Jalandhar, Tech-Pacific, Jalandhar, Rs. 1.76 lacs.
- Prof. V. K. Gupta, CED, Structural Design of Sadhak Block, Muni Ki Reti, Rishikesh, General Secretary, The Divine Life Society, Rishikesh, Rs. 1.50 lacs.
- Vetting of Structural Design of Proposed 190 m long Continuous Girder Bridge, Executive Engineer, Construction Division, Dugdaga, Laxmangarh, Rs. 4.00 lacs.
- Vetting of Structural Design of Proposed 190 m long Continuous girder bridge over River Alaknanda at Srinagar Garhwal, Executive Engineer, Construction Division, PWD, Srinagar Garhwal, Rs. 9.50 lacs. Third Party Quality Assurance for Construction of two lane bridge at Garudchatti, Lakshman Jhula, Executive Engineer, Construction Division, Dugdada, Garhwal, Rs. 5.00 lacs.
- Dr. U. C. Kothyari, CED, Location and Hydrological / Mathematical Studies of Bridges on River Ganga, Jaipurakash Associates Limited, New Delhi, Rs. 30.00 lacs.
- Dr. U. C. Kothyari, CED, Location and Hydrological / Mathematical Studies of Bridges on River Ganga, Jaipurakash Associates Limited, New Delhi, Rs. 30.00 lacs.
- Dr. Umesh Kumar Sharma, CED, Proof Checking of Retaining Wall over Culvert, SOMA Enterprises Ltd., Hyderabad, Rs. 2.00 lacs. Non Destructive Testing of Office Building, Project Manager, Gangajal Project, U.P. Jal Nigam, Agra, Rs. 1.50 lacs.
- Dr. Z. Ahmad, CED, Discharge measurement of five Bore Wells Pumps, S. K. Gupta, 23, Adarsh Vihar Colony, Delhi Road, Saharanpur, Rs. 1.50 lacs.
Participation in Conferences/Workshops/Seminars/Symposiums

- Dr. Priti Maheshwari, Civil Engineering Department participated in the Second Indo-American Frontiers of Engineering Symposium (IAFOE), held at the National Academies' Beckman Center in Irvine, California, February 27 - March 1, 2008.


- Dr. Neellesh Kumar Jain, Assistant Professor, Mechanical and Industrial Engineering Department delivered FIVE lectures on the topics of Computer Integrated Manufacturing (CIM), Automation, Computer Aided Manufacturing (CAM), and Computer Aided Process Planning (CAPP) in a Short-Term Training Program on CAD/CAM for Polytechnic Teachers of Uttarakhand during March 11-15, 2008, organized at STEP IIT Roorkee.

- Dr. D. C. Singhal, Professor, Hydrology
  - attended International Workshop on “A Decision Support Tool for Groundwater Management in Hard Rock Aquifers in Semi-arid Regions”, held in Hyderabad (A.P.) between March 3-5, 2008. He also chaired the Concluding and Round Table Sessions in the above workshop.
  - organized one short term course on ‘Mathematical Modelling of Groundwater Systems’ for Officers of CGWB, Faridabad from March 24 to April 5, 2008. The course was attended by 15 participants drawn from CGWB offices located in various parts of the country.
  - attended All India Seminar on Sustainability of Groundwater Development & It’s Effective Management, held in Brahmapur, Orissa between April 19 to 20, 2008. He delivered a key note address on “Groundwater Resource of India: Present Scenario and Sustainable Development” during the inaugural session of the Seminar which was inaugurated by Sri Chandra Sekhar Sahu, Union Minister of State for Rural Development, Govt. of India, New Delhi.


- Dr. M. L. Kansal, Professor, Water Resources Development and Management Department:

- visited ENGEES, Strasbourg, France during March 5-6, 2008 and delivered a lecture on “Reliability Analysis of Urban Water Supply Schemes”.

- attended and presented a paper on “Issues and Challenges of Flood Management in Jakarta City of Indonesia” during an International Seminar on “Management and Mitigation of Water Induced Disasters”, held during April 21-22, 2008 at Kathmandu, Nepal. He also participated as an Expert in the panel discussion.

- Dr. S. C. Sharma, Associate Professor, DPT chaired technical sessions in the following four conferences:

- Dr. Millie Pant (PI), lecturer in Maths, DPT, has been sanctioned a DST Project of Rs. 13,97,000/- entitled 'Study for Assessment, Estimation and Prevention of Non-Point Source Ground Water Contamination in Fuzzy Environment using Genetic Algorithms and applying High Performance Computing'. Prof. Kusum Deep, Maths Department is the Co-Principal Investigator.

- Prof. V. P. Singh, DPT chaired a technical session in the 11th Punjab Science Congress, held at Thapar University, Patiala, February 07-09, 2008.

Following research papers were also presented in the Congress:

- Deepak Kumar, Millie Pant and V. P. Singh, “Numerical Solution of Brown Stock Washer Problems in Paper Industry”.


- Radha, Millie Pant and V. P. Singh, “Application of Particle Swarm Optimization in Electrical Engineering”.

- Sunil Kumar, V. P. Singh and Rajendra Kumar, “System of Roche Coordinates of a Stellar Model Distorted By Differential Rotation”.

- Dr. Kailas L. Wasewar, Assistant Professor, Chemical Engineering Department delivered an invited Lecture on "Intensification of Recovery of Propionic Acid By Reactive Extraction", in National Conference On Clean Technology And Cleaner Production, Deen Bandhu Chottu Ram University of Science and Technology, Murthal, 8-9 May, 2008.
The Director is pleased to appoint Dr. Manoj Kumar Arora, Professor, Department of Civil Engineering as the Chairman, GATE - 2009, with immediate effect.

The Dy. Director of the Institute will be the First Appellate Authority, for the purpose of preferring appeals under Section 19 of the Right to Information Act-2005. The details of the First Appellate Authority and the Public Information Officer are as under:

First Appellate Authority:
Prof. H. K. Verma
Dy. Director
Indian Institute of Technology Roorkee
Roorkee - 247667
Phone: 01332-285221 (Office)
E-mail: director@iitr.ernet.in

Publication Information Office:
Lt. Col. (Retd.) A. K. Srivastava
Registrar
Indian Institute of Technology Roorkee
Roorkee - 247667
Phone: 01332-272430, 285311 (Office)
E-mail: regis@iitr.ernet.in

On the recommendation of Dr. Manoj Kumar Arora, Chairman, GATE - 2009, the Director is pleased to approve the following appointments for GATE - 2009 and JAM - 2009:
1- Prof. V. K. Gupta, Vice-Chairman, GATE-2009 / JAM - 2009, Deptt. of Civil Engg.
2- Prof. Manoj Mishra, Vice-Chairman, GATE-2009 / JAM - 2009, Deptt. of E & CE
Further, Professor Manoj Kumar Arora will also be the Chairman, JAM-2009 alongwith Chairman GATE - 2009.

On the recommendation of Dr. P. S. Mishra, Chairman, Community Dairy, the Director is pleased to appoint Dr. Naveen Kumar, Assistant Professor in Biotechnology Department as Deputy Chairman (Admn.) Community Dairy in place of Dr. Vikas Pruthi, Assistant Professor in Biotechnology with immediate effect.

ABN excels again
Adarsh Bal Niketan, IIT Roorkee again got 100% result in CBSE Class X Examination for the fourth consecutive year. It’s five students obtained more than 90% marks, 34 students got more than 75% marks and 66 students secured more than 60% marks. From this year onwards ABN has added a new scholarship of Rs. 1000 per month for the students getting more than 90% marks in class X. It will result in zero fee for them while studying in class XI & XII. In class XII also fifteen students have secured more than 75% marks.

कृपया ध्यान दें

Your attention please

1. संबिधान के अनुच्छेद 343 के अनुसार संघ को राज्यव्यय हिंदी रंगी और उसके अनुच्छेद 351 के अनुसार हिंदी भाषा को प्रसार-वृद्धि कराना और उसका विकास कराना, ताकि वह भारत की सामाजिक संस्कृति के सब तथ्य को आधिकारिक का माध्यम हो सके, संघ का कर्त्तव्य है।

Under article 343 of the Constitution, Hindi shall be the official language of the Union, and under article 351 thereof it is the duty of the Union to promote, the spread of the Hindi Language and to develop it so that it may serve as a medium of expression for all the elements of the composite culture of India.

2. अनुच्छेद 350 के अनुसार किसी विशेष का निवारण के लिए प्रत्यक्ष व्यक्ति को संघ या राज्य के किसी पारिधिकारी या प्राधिकारी को यथायोग्यता, संघ या राज्य में प्रयोग होने वाली किसी भाषा म अधिवेशन देने का हक होगा।

Article 350 provides that every person shall be entitled to submit a representation for the redress of any grievance to any officer or authority of Union or a State in any of the languages used in the Union or in the State, as the case may be.

3. हिंदी म प्राधिक को उल्लास, केंद्रीय सरकार के कार्यवत्त से हिंदी म दिये जायें । (राज्यव्यय नियम संख्या 5)

Communication from a Central Government office in reply to communications in Hindi shall be in Hindi. (Official Language Rule no. 5)

4. भारत सरकार द्वारा प्रान्तिक अथवा स्थानीय स्वायत्त कार्यकारी तथा पंजीकृत स्वायत्त कार्यकारी तथा पंजीकृत स्वायत्त कार्यकारी के अर्थात् कार्यक्षेत्र में आते हैं। [राज्यव्यय भाषा कार्यकारी ज्ञापन संख्या 1/14013/09/99–रा.भा. (नीति–1) दिल्ली 19.12.1999]

The autonomous bodies and registered societies promoted or set up by the Government of India are instruments of the Union and come within the purview of Art. 343 of the Constitution. (Department Of Official Language O. M. No.1/14013/09/99-O.L. (Policy) Dt:19-12-1999)

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