Annexure XI and XII

DETAILED TECHNICAL PROGRAM WITH KEY NOTE SPEAKERS

Detailed Program		
27 th October 2015		
09:30 am - 10:35 am	Venue A	Inaugural Session
11:00 am - 12:30 pm	Venue A	Technical Session I: Chair: Dr. V. M. Sharma Consultant; Co-Chair: Shri. Y. Deva, ICCS Ltd (Formerly GSI) Special Theme I: Hydropower in India Keynote Lecture 01 R. N. Mishra: Hydropower-Myths and Conjectures Keynote Lecture 02 S. P. Sen: TBM: Its success and Failures in Hydro Tunnels -Indian Himalaya Keynote Lecture 03 Dr. Robert Gold Smith: The importance of Engineering Geology for hydropower development in India
Venue A 12:35 pm - 13:35 pm Venue B	Venue A	 Technical Session 2 (A): Chair: Shri Harbans Singh, Director General GSI; Co-Chair Dr. Sujit Dasgupta, Formerly GSI Theme I Investigation Techniques and Exploration Keynote Lecture 12:35-13:05 hrs Keynote Lecture 04 A. B. Pandya: New Frontiers in Geotechnical Engineering: Challenges and Opportunities 13:05-13:35 hrs Paper I P. K. Gupta and Prashant Rai: Challenges and construction of big dams in Siwaliks Himalayas-A need for future Paper II G. K. Kaishtha: Yamuna Valley Projects-A Journey Down Memory Lane. Paper III Atiye Tugrul, Selahattin Hasdemir and Murat Yılmaz: Assessment of Mineralogic, Petrographic and Chemical Composition of Natural Sands Using as Concrete Aggregate.
	 Technical Session 2 (B): Chair: Dr. Prabhas Pande, Formerly GSI; Co-Chair: Shri N. K. Mathur, Formerly NHPC; Theme I: Investigation Techniques and Exploration Paper I J. K. Yachu, Mr. Prashant Rai and Dr. Gopal Dhawan: Influence of geology on layout optimisation of Tamanthi multipurpose project. Paper II S. L Kapil and Pallavi Khanna: Systematic approach to seismicity studies for hydroelectric projects with special reference to NE India. Paper III S. Kunar: Integrated Geophysical Approach to Assess Geotechnical Input Parameters for Design of underground storage cavern: A Case Study from Western Ghat Mountain belt, India. Paper IV Abhay Kumar Bharti, S. K.Pal, Piyush Priyam and Satya Narayan: Detection of Illegal Mining over Jharia Coalfield using Electrical Resistivity Tomography. Paper V A. K. Chadha, K. S. Chauhan and Mahesh Dutt: Remoteness of an area should not be impediment for good investigation program for large hydroelectric Projects. 	

Venue A: Main Auditorium (Seminar Hall) Venue B: Block IV Lecture Theatre

Venue C: Block V Lecture Theatre

	27 th October 2015		
12:35 pm - 13:35 pm	Venue C	 Technical Session 2 (C): Chair: Dr. B. Bhattacharya; Co-Chair: Shri Rajeev Sethi, Formerly NHPC Theme I: Investigation Techniques and Exploration Paper I Sanjay Rana: Unique Applications of Engineering Geophysics Paper II Megha Kalra & Gauhar Mehmood: Analysis of three types of quartzite as coarse aggregate material and their impact on compressive strength on concrete. Paper III Sanjit Kumar Pal, Sunny Kr. Ranjan and K. K. K. Singh: Utilization of multimode surface wave dispersions for improving of shallow surface characterization. Paper IV Sahadev Kumar, S. K. Pal and Jitendra Vaish: Utilization of magnetic gradient Paper V Satyajit Rath, S. K. Pandey, D. P. Sandha, S. K. Mishra and B. P. S. Sahoo: Earth Monitoring using Wireless Sensor Networks: A Case Study of Landslide Monitoring. 	
13:35 pm - 14:20 pm		Lunch	
14:20 pm - 15:50 pm	Venue A	Technical Session 8: Chair: Shri P. L. Narula Formerly GSI; Co-Chair: Shri U. V. Hegde GMR Technical Session 3: 14:20-15:20 hrs Technical Session 3 (A): 15:20-15:50 hrs Theme VIII Seismicity Keynote Lecture 05 Prabhas Pande: Seismo-tectonics in the planning of hydropower projects in the Himalaya Keynote Lecture 06 Sujit Das Gupta: Foreland and hinterland structural features athwart Himalaya: Exposition and seismic propensity Keynote Lecture 07 Shuichi Hasegawa: Engineering Geology in Active Mountain Belts-Application of knowledge from Japan to the Himalaya	

	27 th October 2015		
14:20 pm - 15:50 pm	Venue B	 Technical Session 3 (A) Chair: Shri Gyaneshwar Pant, Formerly GSI; Co-Chair: Shri Joyesh Bagchi, Director (Tech), Ministry of Steel & Mines Theme III Construction Stage Engineering Geology and Geotechnical Aspects Paper I R. D. Dwivedi & R. K. Goel: Empirical correlation between joint factor, Jf and rock mass number, N. Paper II A. K. Mishra, K. Chhophel, Pankaj Punetha, K. Lahkar and Mandeep Singh: Excavation and rock support for concrete dam abutments: A case study of Mangdechhu HE Project, Bhutan Paper III D. C. Tripathi and Vachaspati Pandey: Tunnel Seismic Prediction, a Diagnostic Tool in Geotechnical studies: Case study of 231 MW (3x77 MW) Chamera Stage-III Power Station Distt. Chamba (H.P.), India. Paper IV D. Ramakrishna: Geotechnical properties of AMRP Tunnel-1 and rock borability by TBM. Paper V L. N. Sharma: Integration of Field, Geological and Geoinformatics data for potential construction site of a Dam- A case study from Pipalghatti village, Panchkula District, Haryana, India. Paper VI A. K. Verma, B. R.Godara and Pradeep Singh: Delineation of Buried Channel with the help of Bedrock Contours and Surfer Software using Surface and Subsurface Explorations- Goriganga-IIIA HE Project. Paper VI Jina Mandal and K. Lakshmanan: Post construction stage geotechnical investigation of Sidhata medium irrigation project, Jawali, District Kangra, Himachal Pradesh. 	
	Venue C	 Technical Session 3 (B) Chair: Shri R. S. Garkhal, DDG, GSI ; Co-Chair: Shri Mukhopadhayay Tapanjypti SNC-Lavalin Theme III Construction Stage Engineering Geology and Geotechnical Aspects Paper I Prasnna Jain, A.K. Naithani and T.N. Singh: Performance characteristics of Tunnel Boring Machines and correlation with empirical prediction model – case study from Mumbai, India. Paper II Ravi Kumar: Panjal and Murree Thrusts– Influence and Prognostication of Associated Problems in Water Conductor of Parnai HEP (37.5 MW). Paper III Dr. A.K. Sisodia, Vinay Kumar Dixit and Dixit Baruah Tunneling in Adverse Geological Conditions in Mangdechhu Hydro-Electric Project. Paper IV Shyam Sundar Singh, Prashant T. Ilamkar and Dr. K. Jayabalan: Preconstruction stage geotechnical evaluation of Thana-Plaun hydroelectric project, Mandi district, Himachal Pradesh. 	

27 th October 2015		
14:20 pm - 15:50 pm	Venue C	 Paper V T. N. Srivastava, R.C. Senan, A.K. Singh. G.C. Pargaien, N. Gopalakrishnan and M. Bedi: Excavation of Inclined Pressure Shafts in Difficult Geological Conditions – A Case Study from Tapovan Vishnugad H.E. Project, Joshimath, Uttarakhand, India. Paper VI L. G. Singh and A.K. Naithani: Rock mass Assessment of a deep pump house area – A case study.
15:50 pm - 16:20 pm		Tea Break
15.50 pm - 10.20 pm	Venue A	Technical Session 4 & 5 : Chair: Shri S.P. Sen Formerly NHPC; Co-Chair: Shri Y. Deva ICCS Ltd (Formerly GSI) Technical Session 4 16:20-16:50 hrs Special Theme III: - Education Keynote Lecture 08 Martin Culshaw: How to write and publish a paper. Technical Session 5: 16:50-18:00 hrs Special Theme IV: - Tunnel Boring Machines and Tunnelling Keynote Lecture 09 Joe Roby: Application of TBM in Himalaya Keynote Lecture 10 Paul Marinos: Tunnelling in difficult ground Paper I Jie Wu: Competition between TBM excavation and convergent deformation of surrounding rock.
16:20pm - 18:00 pm	Venue B	 Technical Session 3 (C): Chair: Dr. Y. P. Sharada, Formerly GSI; Co-Chair: Dr. Manoj Verman, Rockscience Theme III Construction Stage Engineering Geology and Geotechnical Aspects Paper I A. K. Mishra, K. Chhophel, P. Punetha, K. Lahkar, Deepak Joshi: Case Study on Dam Foundation Condition of Mangdechhu Hydroelectric Project, Bhutan. Paper II Vachaspati Pandey and J. K. Yachu: Surge Shaft Excavation in Challenging Geology: A case study of Surge shaft of Chamera HE Project Stage-III, (H.P.), India. Paper III Aiswarya Kumar, Naveen Kumar Gupta, B. K. Misra and R. K. Hustoo: Tunneling below the American Center for DMRC phase-III project- A case study. Paper IV Kranti Kumar Gupta, R. K. Chauhan, Dr. Umakant Sharma and M. P. Singh: Applications of Geotechnical Techniques in RHEP-412 MW- A Case Study. Paper V P. T. Ilamkar, Virender Singh Negi, Kundan Rangari and K. Jayabalan: Construction stage geotechnical evaluation of Shaongtong Karcham HEP, District Kinnaur, Himachal Pradesh. Paper VI Rahul Joshi*, Dr. L. K. Kshirsagar, Dr. P. B. Jadhav: Engineering Geological Assessment of Volcanic Breccia: a Case Study from a Tunnel near Gulbarga, NW, Karnataka, India.

	27 th October 2015		
16:20pm - 18:00 pm	Venue C	 Technical Session 3 (D): Chair: Shri M. Ahmed ACES, Dubai Co-Chair: Shri Prashanta Mishra, GSI Theme III Construction Stage Engineering Geology and Geotechnical Aspects Paper I A. K. Pathak, J. B. Stypulkowski, F. B. Bernardeau: Supervision of Engineering Geological Activities during Construction of Abu Hamour Surface and Ground Water Drainage Tunnel Phase-1 Doha, Qatar. Paper II Aditya Bhatt, Amit Gupta and R. K. Gupta: Prediction, interpretation and treatment of adverse geological features in underground powerhouse cavern – A case study Paper III Y. R. Dhar, and John, D.: Geotechnical characterization of rock mass and preconstruction stage slope stability analyses of rock slopes abutting Barrage site at Tapovan-Vishnugad Hydropower Project, Uttarakhand Himalaya. Paper IV B. D. Patni, and Arindom Chakraborty: Coping with Unprecedented Tunnelling Conditions at Pallivasal Extension Scheme - A Case Study. Paper V S. K. Mohanty, Joffy, V. L., Adhikari, V., Dimri, R., Tirumala, S. K., & Krenn, F.: Construction Stage Geological - Geotechnical Investigations for Underground Crude Oil Storage Caverns, Padur, Karnataka, India. Paper VI Harish Bahuguna: Optimisation of excavation and support measures for the slopes back of surface powerhouse of Vyasi hydroelectric Project. 	
28 th 09:30 am - 11:30 am	October 203	 Registration: 09:00 am - 11:00 am Technical Session 4 (A) & 5 (A) Chair: Shri Brijendra Sharma, Formerly NHPC; Co-Chair: Dr. Ann Williams, IAEG Technical Session 4 (A) 09:30-10:30 hrs Special Theme III: Education Keynote Lectures 09:30-10:30 hrs Keynote Lecture 11 Helen Reeves: Computers and Engineering Geology Keynote Lecture 12 Faquan Wu: Large deformations in tunnels Technical Session 5 (A) 10:30-11:30 hrs Theme II Rock Mechanics Paper I Balraj Joshi, Anil Kr Jain and Rajesh Kumar: Excavation stability analysis of underground hydraulic structures- Desilting chambers- NHPC perspective. Paper II R. K. Goel and Dr. Subhash Mitra: Importance of Weathering in Rock Engineering. Paper III Ali Burak Yener and Sinem Centinkaya, The Importance of Engineering Geological Considerations during construction stage of a Dam - A case Study of Ballıkaya Dam, NW Anatolia, TURKEY. 	

		28 th October 2015
09:30 am - 11:30 am	Venue A	 Paper III K. S. Rao and Ankesh Kumar: Geological and Engineering Behaviour of Oil Shales. Paper IV Hari Dev and Singh Rajbal: Evaluation of In-situ Stresses for Design of Underground Structures in Hydropower Development. Paper V Ashok Kumar, Sahenra Ram and Rajendra Singh: Rock Mechanics considerations for rib/snook design in mechanised depillaring.
10:30 am - 11:30 am	Venue B	 Technical Session 7 (A) Chair: Dr. V. Venkateshwarulu, Director, NIRM; Co-Chair: Shri P. K. Gupta, GM NHPC Theme VI : Mining Paper I D. N.Sharma, O. Gopal and D. Srinivas: Assessment of Slope Stability in Opencast Coal mine through Structural mapping, Manuguru, Singareni Collieries. Paper II A. Mokhtari, Monjezi, M and Mehrdanesh, A. H.: Application of Multi-Criteria Decision Making Models in Designing Blasting Pattern of Gole-E-Gohar (mine # 1) Iron Mine. Paper III H. K. Verma, N. K. Samadhiya, M. Singh and R. K. Goel: Extent of rock mass damage induced by blasting in tunnelling. Paper IV F. Coli, M. Coppi, G. Donati, L. Funaioli, Leoni: Critical Short Term and Strategic Long Term Slope Monitoring Radar – an approach using SAR. Paper V S. S. Ghalib Askari, Sanjeev Kumar Thakur, N. V. Sairam, Dr. Suman Krishna Sit and Sanjay Kumar Singh: Geological Discontinuity Mapping during Development & Depillaring of 2S Panel, Seam IX in Digwadi Colliery, Jharia Coalfield, Jharkhand, India: A Case Study on Roof fall Hazards Mitigation in Underground coal mine. Paper VI V. Saini, R.P. Gupta and M. K. Arora: Environmental issues of coal mining - A case study of Jharia coal field India.
09:30 am - 11:30 am	Venue C	 Technical Session 11(A) Chair: Shri S. P. Sen, Formerly NHPC; Co-Chair: Dr. Rajinder Bhasin, NGI, Norway Theme VII: Hydrology, Groundwater and Geoenvironment. Keynote Lecture 13 Rajinder Bhasin and Bhoop Singh: Cost effective method for early warning of rainfall induced landslides in Asian countries. Paper 0 S.K. Wadhawan: Geotechnical Application for Geohazards Mitigation in Dryland Environment of Thar Desert, India Paper I Xiaolei Liu, Yonggang Jia, Jiewen Zheng and Hongxian Shan: Critical role of wave-induced bed liquefaction in the re-suspension and transport of sediments discharged from the Yellow River.

Venue A: Main Auditorium (Seminar Hall) Venue B: Block IV Lecture Theatre

Venue C: Block V Lecture Theatre

	28 th October 2015		
09:30 am - 11:30 am	Venue C	 Paper II Shaotong Zhang and Yonggang Jia: Field experiments on the role of seepage-induced pump action in sediment re-suspension on an intertidal flat of Yellow River delta, China. Paper III K. R. Kafle, S. N. Khanan, R. K. Dahal "Adaptation on sedimentation" in term of agriculture practices after 2008, August Koshi flood in Nepal: Paper IV K. Rama Mohan, A. Keshav Krishna, Irina V. Galitskaya, Olga N. Eremina & Gleb I. Batrak: Comparative assessment of natural and human induced heavy metal pollution in the surface soils in urban areas in platform conditions. Paper V Yaoru Lu and Qi Liu: The features of six-dimensional geo-environment and Karst development. Paper VI Ranjan Kumar Dahal: Consequences of large-scale landslide dams in the Nepal Himalaya. Paper VII Dr. K. Jayabalan, Ravi Shankar Chaubey, Kundan Digambar Rangari & P T Ilamkar An overview of Glacio-Fluvial lake burst in the upper reaches of Kirgrang nala (Yula glacier), Pin Valley, District Spiti, Himachal Pradesh, India 	
11:30 am - 11:50 am		Tea Break	
		Technical Session 5 (B) Chair: Prof K.S. Rao, IIT Delhi; Co-Chair: Shri Hasan Abdulla Jt Director CSMRS Theme II Rock Mechanics Keynote Lecture 11:50-12:20 hrs Keynote Lecture 014 Rajbal Singh: Issues in rock mechanics testing for hydropower projects 12:20-13:30 hrs	

		28 th October 2015		
11:50 am - 13:30 pm	Venue B	 Technical Session 5 (C) Chair: Dr A. K. Dhawan Consultant; Co-Chair: Shri Hari Dev CSMRS Theme II Rock Mechanics Paper I Rakesh Sehgal: Design and Construction of Head Race Tunnel of Rampur HEP (412 MW) in adverse geological conditions-A case study. Paper II H. K. Singh and Dr. A. Basu: Influence of surface roughness characteristics of unfilled rock joints on peak shear strength. Paper III Seyed Mohammad Mahdi Niktabar, K. Seshagiri Rao and Amit Kumar Shrivastava: Shear Behaviour of rock joints under cyclic condition. Paper IV R. G. Virmani & M. Ghosh Roy: Monitoring long term movement of hill slope in penstock area of Loktak Power Station. Paper V B. K. Ojha: Innovative tunnelling practices at Teesta-III. Paper VI Feroz Ahmad, M. Kazafi, Shakeel Ahmad, Saadat B Khakiand and G. A. Mukthar: To Analyze the Slope Stability for Designing the Dam Abutments of Kirthai-I HEP, Kishtwar, J&K, India. Paper VII B. K. Ram and Dr. A. Basu: Influence of weathering on the shear strength of rock joints in Granites 		
	Venue C	Technical Session 4 (B) Chair: Dr. Gopal Dhawan Co-Chair: Shri J.K. Yachu, NHPC Special Theme III: Education Keynote Lecture 15 Surya Prakash: Natural disaster in the Himalaya-Lessons learnt and way forward Keynote Lecture 16 Arindam Basu: International practices in Engineering Geology: Education in India.		
13:30 pm - 14:15 pm		Lunch Break		
14:15 pm - 15:45 pm Venue A: Main Auditorium (Sen	Venue A	Technical Session 6 (A) Chair: Dr. Carlos Delago; Co-Chair: Shri Balraj Joshi GM Design NHPC Theme IV Geotechnical Engineering and Soil Mechanics Keynote Lectures 14:15-15:25 hrs Keynote Lecture 17 Carlos Delago: Problematic soil foundations for large buildings Keynote Lecture 18: Victor Osipov: Shear resistance as a multifactor parameter of soil strength Keynote Lecture 19 Dr. Ricardo Oliveira: Role of environment in project optimisation 15:25-15:45 hrs Paper I N. P. Honkanadavar, Nripendra Kumar and Murari Ratnam: Large Size Triaxial Behaviour of Alluvial and Blasted Quarried Rockfill Materials. Paper II Jiewen Zheng, Baohua Liu, Xiaolei Liu, Venue B: Block IV Lecture Theatre Venue C: Block V Lecture Theatre		

	28 th October 2015		
	Venue A	Guangming Kan, Kaiben Yu and Guanbao Li: Sound velocity and geotechnical properties of intertidal flat sediments near Dagu Estuary, China.	
	Venue B	 Technical Session 3 (E) Chair: Dr. S.K. Wadhawan (Formerly GSI); Co-Chair: Shri D.C. Tripathi NHPC Theme III Construction Stage Engineering Geology and Geotechnical Aspects Paper I N. K. Mathur & Sumegh Meghraj Kawade, Integrated approach in planning & execution of infrastructure projects Paper II D. S. Rawat, A.K. Naithani and G. Srinivasa Rao, Treatment of cavities during construction of twin tunnels in an irrigation project – a case study. Paper III Arindom Chakraborty and K. Seshagiri Rao: Water Ingress Assessment in Tunnels – An Overview Paper IV Dr. K. Jayabalan and R. Srinivasan: Geotechnical investigation on intra state river linking canal project of Tamiraparani- Karumeniyar and Nambiar rivers, Tirunelveli and Thoothukudi districts, Tamil Nadu. Paper V Radhakrishnan. S, D.K. Joshi, P.C. Nawani: Prognostication of rock mass behaviour of Hydropower Tunnels in Trans Himalayan region, North East India. 	
14:15 pm - 15:45 pm	Venue C	 Technical Session 8 (E) 14:15-15:45 hrs Chair: Prof. K. S. Rao; Co-Chair: Dr. V.K. Sharma GSI Theme VIII Landslide Studies Hazards and Seismicity Paper I K. Seshagiri Rao and Tarun Singh: Rainfall Thresholds for Landslides: Their Capabilities and Limitations. Paper II Amitansu Pattanaik, Abhay Tripathi and Himanshi Singh Negi: Validating landslide events by Precipitation Depth Frequency (PDF) estimation method: an analysis for Tangni Landslide, Uttarakhand, India. Paper III B. D. Malbarna: Development of three major landslides and adopted remedial measures along Katra-Dharm Railway Line section of USBRL Project, Jammu & Kashmir. Paper IV K. Lakshmanan and Jina Mandal: Geological impact assessment of Kedar Ghati - A mass destruction during June 2013 disaster, district Rudraprayag, Uttarkhand, India. Paper V. R. K. Panigrahi, and Shaw, A.K: Engineering Geological Assessment of Hill Rock Slope Paper VI Subash Chandra Roy: Environmental impact evaluation of mining in Maldeota- a case study.(shifted from Hydrology). Paper VII Ravi Shankar Chaubey, Kundan Rangari, P.T. Ilamkar and K. Jayabalan: Mass movement on the top of Shongtong Karchham underground powerhouse site, Mebar, Rekong Peo, district Kinnaur, Himachal Pradesh. 	

28 th October 2015		
15:45 pm - 16:05 pm		Tea Break
Venue	Venue A	Technical Session 12, 3 and 3 (F): Chair: Dr. M.L. Sharma IIT Roorkee; Co-Chair: Shri J.S. Mehta, Director GSI. Technical Session 12 & 3: 16:05-17:05 hrs Special Theme VI & II Energy & Engineering Geology Keynote Lecture 20 Shri M. M. Madaan: Energy development scenario in India. Keynote Lecture 21 V. Balachandran: Engineering Geology for hydropower development in Peninsular India Technical Session 8: 17:05-18:00 hrs Keynote Lecture 22 B. Bhattacharya : Understanding the Emerging Potential of Geophysics for Novel Application in Complex geotechnical problems Technical Session 3 (F): 17:35-16:00 hrs Theme III Construction Stage Engineering Geology and Geotechnical Aspects Paper I Ning LIANG, Faquan WU and Yunfeng WANG: Adjustment of rock mass classification based on statistic mechanics of rock mass (SMRM) in deeply buried and high in situ stressed Guanshan railway tunnel. Paper II Sanjiv Kumar and M. Raju: 3D Wedge analysis of desilting chambers of Punatsangchhu-II hydroelectric project, district Wangduephodrang, Bhutan: a case study Paper III K.S. Rao and Ashwani Jain: Approaches for assessment and analysis of squeezing phenomenon in underground structure.
16:05 pm - 18:00 pm	Venue B	 Technical Session 6 (B) Chair: Shri Kanwar Singh ED NHPC; Co-Chair: Dr. R.K. Goel, CMFIR, Roorkee Theme IV Geotechnical Engineering and Soil Mechanics Paper I Elif Avşar, Resat Ulusay and Mahmut Mutlutürk: Geomechnical properties of a slightly cemented volcanic soil (Turkey) and effect of microstructure on its geomechanical behaviour. Paper II Darin Baruah and Prof. Anil Kumar Sahu: Comparative study of load deformation behavior of silty clay bed reinforced with stone column of different depth and gradation. Paper III Balendra Mouli Marrapu and Dr. Ravi Sankar Jakka: Slope stability assessment of Kalla - Coonoor Hill road stretch of the Nilgiris: A comparative study of multiple regressions and neural network. Paper IV Md. Saif Ahmed, Pankaj Patnaik and Shaheen Sultana: Quality audit for saline embankment: A geotechnical engineering perspective. Paper V S. Sinha and A. Basu: Physico-mechanical characterization of lateritic profiles: A depth-wise assessment. Paper VI Alok Ranjan and Prof. R. Ayothiraman: Stabilisation of black cotton soil with saw dust. Paper VII Arpita Pankaj and Pankaj Kumar: Role of Soil Potential in City Planning- A case study of Rae Bareilly city, Uttar Pradesh, India

Venue A: Main Auditorium (Seminar Hall) Venue B: Block IV Lecture Theatre

29 th October 2015		
	Venue A	 Technical Session 9 Chair: Shri M.R. Bhutiyani Director DTRL, DRDO; Co-Chair: Dr. V. Balachandran, Formerly GSI Special Theme V: Stability Keynote Lecture 23 Louis N. Y. Wong: How do rocks fail? ("IAEG Richard Wolters' Prize 2014") . Keynote Lecture 24 Runqiu Huang: Landslides in eastern Tibet in recent ten years and their implications on global climate changes. Keynote Lecture 25 M. J. Ahmed: Rock cut slope stabilization – A systematic approach in the design and construction. Theme VIII: Landslide Studies Hazards and Seismicity Paper I A. Strom: Surface Faulting at Structures' Foundation: Assessment of Residual Risk after Implementation of Protection Measures.
09:30 am - 11:15 am	Venue B	 Technical Session 8 (A) Chair: Shri M. Raju, GSI; Co-Chair: Shri Imran Sayeed, NHPC Theme VIII: Landslide Studies Hazards and Seismicity Paper I Mineo S. and Pappalardo G, Infrared thermography for the detection of potentially unstable areas along a slope Paper II Alex Varughese, Ganesh W. Rathod & K.S.Rao: Three Dimensional Stability Analysis of Jointed Rock Slope –A case Study. Paper III Sanjeev Gupta, Site Specific Design Earthquake Parameters for different Hydro Electric Projects located in the Himalayan belt - Case Studies. Paper IV S. Mohanty, Seismotectonics of the Indian plate interior: insights from geodetic strain patterns. Paper V Pankaj Kumar, Arpita Pankaj and Abhinandan Srivastava: Macro seismic study of the earthquake of 5th March 2012 in Delhi-Haryana region. Paper VI S. Sarkar, A. Pain, D. P. Kanungo and M. Samanta, Hill slope stability based on Hoek-Brown and modified Mohr-Coulomb criterion - a case study from Sikkim Himalaya.
Venue C	 Technical Session 8 (B) Chair: Dr. Sujit Das Gupta, Formerly GSI Co-Chair: Shri Ashok Kumar, DDG, GSI Theme VIII: Landslide Studies Hazards and Seismicity Paper I P. V. S Rawat, A. P. Thapliyal, S. K. Tripathi, Harish Bahuguna, S. P. Shukla, Jina Mandal, K. Lakshmanan and T. S. Pangtey: Qua Vadis Kedarnath: Post disaster 2013. Paper II Neil Monteiro, D.P. Kanungo & R. Anbalagan: Landslides in parts of Chamoli District: An Engineering Geological and Dimensional Assessment. 	

	29 th October 2015		
09:30 am - 11:15 am	Venue C	 Paper III Shovan L. Chattoraj, Yateesh Ketholia, P. K. Champati Ray and Suresh Kannaujiya: Debris flow modelling and risk assessment of selected landslides from Uttarakhand. Paper IV Sanjiv Sharma, Prasanta Mishra, G.C. Kandpal, Dhruba Chakraborty and Imtikumzuk: Geotechnical Assessment of twin landslides at Ramhlun area, Aizwal, Mizoram. Paper V Hamid Sana, Gulzar Ahmad Mukhtar and Sankar Kumar Nath: Seismicity analysis of Chenab Valley Seismic Zone, NW Himalaya: the seismogenic source zone of Kirthai Hydro Electric Projects. Paper VI Indranil Chakraborty and Sudipto Nath: Site Specific Study to evaluate the failure mechanism of Bojeck Landslide in West District, Sikkim Paper VII Hemant Kumar, P.V.S. Rawat, A. P. Thapliyal and Harsharaj L. Wankhade: Geotechnical assessment of cracks and stability of slope around Garjia Devi temple, Ramnagar, Nainital district, Uttarakhand. 	
11:15 am - 11:35 am		Tea Break	
11:35 am - 13:35 pm	Venue A	Technical Session 8 (C) & 8 (D) Chair: Dr Scott Burns; Co-Chair: Shri Pradeep Singh, Director, GSI Technical Session 8 © 11:35-13:05 hrs Special Theme III Geological Hazards Keynote Lecture 26 Scott Burns: Urban landslides (speaker has indicated some modification in title) Keynote Lecture 27 Ann Williams: Groundwater drawdown and consolidation settlement effects of deep excavations in urban areas – predicted versus measured. Keynote Lecture 28 Dr. Janusz Wasowski: Satellite monitoring of road and railway infrastructure in landslide- prone areas Technical Session 8 (D) 13:05-13:35 hrs Theme VIII: Landslide Studies Hazards and Seismicity Paper I J. Wasowski, F. Bovenga, R. Nutricato, D. O. Nitti and M. T. Chiaradia: Application of advanced satellite interferometry for monitoring road and railway infrastructure in landslide-prone areas. Paper II Mohd. J. Ahmed and Emad Sharif: Stability analysis of a +1000m high cliff for a resort project in the Hajar Mountains of Sultanate of Oman. Paper III Dr. Irina Chesnokova: Assessment of natural and anthropogenic processes for sustainable development	
11:35 am - 13:35 pm Venue A: Main Auditorium (Sen	Venue B	Technical Session 11 (B) 11:35-13:35 hrs Chair: Shri Rakesh Mahajan, Director, ICCS Ltd (formerly CWC) Co-Chair: Shri V. K. Sharma, GMR Theme VII: Hydrology, Groundwater and Geo-environment. Venue B: Block IV Lecture Theatre	

29th October 2015		
11:35 am - 13:35 pm	Venue B	 Paper 0 R.C. Jain Crucial Role of Aquifer Management for Inclusive Growth in India Paper I K. Rama Mohan, A. Keshav Krishna, Irina V. Galitskaya, Olga N. Eremina and Gleb I. Batrak: Effect of industrialization and urbanization on hydrochemistry and contamination of groundwater from Kukatpally watershed, Southern India. Paper II Rajeev Aggarwal: Reservoir Sedimentation for run of the river hydro electric schemes in Himalayan terrain. Paper III Pofali Pradip and Mehul Petkar: Mitigating Industrial Development Impact on Water Resources through Surface and Subsurface Structures in Acute Condition. Paper IV Lalit Mohan Verma, Navneet Kalia, Vinod Kumar and Vinay Guleria: Glacial Lake Outburst Flood (GLOF Studies – Impact and necessity. Paper V C. V. Sangewar: Assessment of the impact of floods due to glacial lake outbursts flood (GLOF) and adaptation of mitigation measures. Paper VI A. D. Rao, Sujatha Das and S. V. Babu: Variability of Coastal Ocean Processes during Pre-monsoon along East coast of India. Paper VII Sambit Sahoo and Prof. Sarada Prasad Mohanty: Reactivation of fault systems of Jura dome, Kutch and their
	Venue C	 Technical Session 9 (A) Chair: Dr. Atul Nanda, EIL; Co-Chair: Dr Florian Krenn, Geo-Consultant India Ltd., Theme VI: Large Caverns Paper I R. Rath, M. Wippich, A. Nanda, F. Wilke: Underground Salt Cavern Storage for Crude Oil: A feasible alternative for India Paper II Saikat Pal, Gopi Kannan, Chandan Kumar, Ranjit Rath and Atul Nanda: Adverse geological conditions and adopted interventions: A case study from an underground rock cavern storage project Paper III Gopi Kannan, A. Usmani, Ranjit Rath and Atul Nanda: Geological considerations for large storage caverns Paper IV A. K. Mishra, G. Baidya, P. Punetha, L. Krishna, and I. Ahmed: Numerical modelling and reevaluation of support system while excavating underground cavern in weak rock.
13:35 pm - 14:35 pm	Lunch	
14:35 pm - 15:00 pm	Networking and Interaction	
15:00 pm - 16:00 pm	Valedictory Session	
16:00 pm - 16:30 pm	High Tea	
11:00 am - 16:00 pm	Poster Session 1 : 27 th October 2015	
11:00 am - 16:00 pm	Poster Session 1 : 28 th October 2015	

PS: For any clarification in the detailed Technical Program, please contact Shri Y. Deva, Convener or Shri Imran Sayeed, Co-Convener for Technical Sessions

Venue A: Main Auditorium (Seminar Hall) Venue B: Block IV Lecture Theatre Venue C: Block V Lecture Theatre