

THE CIVIL ENGINEER

E-NEWSLETTER Volume -VII [2nd Quarterly Issue] April-June, 2016



The Institution of Civil Engineers (India)

The Civil Engineer

E-NEWSLETTER

Volume -VII [2nd Quarterly Issue] April-June, 2016

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The Civil Engineer News Letter is the Official Publication of The Institution of Civil Engineers (India) [Registered under Societies Registration Act, XXI of 1860].

The Civil Engineer-Newsletter contains the news of The Institution of Civil Engineers (India) unless it is stated that an article or a letter does not represent the ICE(I)'s views.

Notice of change of address must be received in the Offices of the Institution of Civil Engineers (India) Regd. Off. or Delhi Off.: 'Career House' 4, East Park Road, Karol Bagh, New Delhi-110005.

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Chairman of the Institution
Dr. S. L. Swamy



From the Editor-in-Chief's Desk

Dear Readers

The second issue of the Civil Engineer e-newsletter is before you containing three articles (i) on taking sustainable living to grass root, (ii) some glimpses of the real estate bill and (iii) ground improvement using encased vertical stone Column. First two articles focus on basic human need i.e. a shelter for living a normal human life whereas third article helps one to use the sites with poor sub surface conditions for different projects. Besides these articles the newsletter has all the usual features of interest to the readers.

Our society is changing constantly and our outlook has totally changed after Independence. These are the days of competition and excelling in all walks of life to make an enviable place in Society. Comfortable living is the desire of one and all. This desire comes only in an enlightened mind. Education empowers the people. Doors of temples of learning are not approachable to all and those who cannot reach them have to struggle to fill this gap. Out of many constraints and compulsions a majority of the people have to take up jobs nevertheless not curbing their desire for education and more education. It is through education

only that you keep your head high in Society. You move from the unreal to the real, and from darkness to light. An individual can realize one's full potentials through education only and contribute to the cause of nation building.

You should have the courage to decide for yourself what is right and what is wrong and move to the direction which leads you to convert your dreams into reality. Never stop learning as learning is a continuous process till the last breath. This is your life. Live it to the fullest and then only your journey to this world would be complete.

With my best wishes

Dr. S.L. Swamy
Chairman

Every day, people settle for less than they deserve. They are only partially living or at best living a partial life. Every human being has the potential for greatness.



From the Editor's pen

Dear Readers

As per schedule the Second Issue of the Civil Engineer, e-Newsletter of ICE(I) is out.

Each Newsletter is an updation of the previous one with the latest facts and figures and also containing articles on topics of general interest of the candidates. I am sure this should be of interest to all those connected with ICE(I). ICE(I) on its march to progress has another mega event slated for **15th September, 2016** when we will organize Engineers' Day and shall hold 6th Annual Convocation. This is a very important day from candidates' point of view as those eligible will be able to receive their Degrees & Diplomas for which they have worked hard and to see them in Academic Robes and being part of the ceremony to listen to the Convocation Address by an Academician par excellence. It is always a treat to listen to the words of wisdom from an experienced person holding a responsible academic position. Let this date be blocked for all those eligible candidates to participate in this mega event.

ICE(I) conducts Examinations in the

month of June & December every year. June, 2016 Examination has just concluded. I take this opportunity to wish best of luck to all those who have appeared for the Examination in June, 2016.

Daily we come across one tragedy or the other taking place in the country and abroad. Either it is a natural calamity or accidental. In both the cases it is a loss to human lives and property and a vacuum is thus created in the smooth lives of the aggrieved families.

We know our life is a combination of joy and sorrow. We cannot close our eyes for those things which we do not like. Things will happen as destined whether we are happy or sad and the life will roll on at its speed. If nothing is in our hands, at least God has given us two hands to join in prayer for the welfare of all human beings. Let there be peace, joy and prosperity for everyone so that this world is a beautiful place to live in.

Wishing you all Good Luck.

Prithipal Singh
Secretary General

In any moment of decision, the best thing you can do is the right thing. The worst thing you can do is nothing.

TAKING SUSTAINABLE LIVING TO GRASS ROOT



Completed house with material, expertise and manpower made available through ACC's GBMC

The need for shelter is known to be the third most basic human need. However, only a fifth of urban and rural households have access to housing facilities in India. In a country where almost 70 per cent of the population still lives in the rural areas and smaller towns, the gap in residential and commercial infrastructure is alarmingly significant. The sector faces severe limitations in terms of the dispersed nature of the population, absence of adequate infrastructure like roads, the weak banking system, limited availability of credit facilities, and most importantly shortage of homes. As of now, if one million homes are built in a year for the next ten years, this would only cover about a quarter of the need.

Thus development of low-cost but quality housing materials, suitable housing designs etc. ply an important role in ensuring housing security to millions of people. The nation's move towards 'smarter' homes and cities have already set the ball rolling. The government has allocated a fund of Rs. 53,000 crore for the development of rural road projects in the Union Budget 2015-2016 to give a boost to the infrastructure development in these areas. Additionally schemes like the Sardar Patel Awaas Yojana help provide free plots of land for the purpose of house-building to BPL card holders.

Affordable housing is a dream the seems far reaching to the rural population unless initiatives are taken by the private sector together with the help of the government.



Treating ACC EcoBricks at the ACC Green Building Material Center

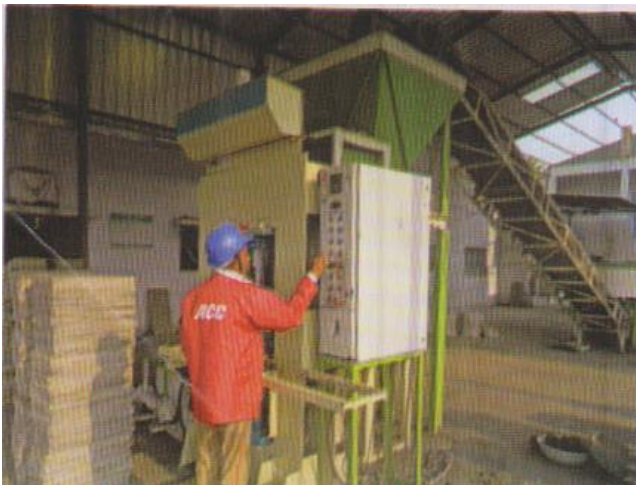
These entities together can help solve the rural housing situation by educating the rural population in terms of the know-how of housing, construction materials, use of alternative eco-friendly construction materials. Also, knowledge building sessions on how to produce and apply these products can be organised at regular intervals. By doing so, it can provide an opportunity for the local entrepreneurs to expand their business.

Such a system has already been adopted by countries like Vietnam, Sri Lanka, Bangladesh and also parts of Latin America. China's Ministry of Construction announced targets to retrofit 25 per cent of their existing public and residential buildings to make them greener by 2020. It estimates that the total cost of retrofitting these existing buildings with energy saving systems will total \$ 193 billion. But the benefits are immense, as this 25 per cent could reduce coal use by 135 million tones a year. That's about 10 per cent of the total amount used in 2014 to generate power in the country.

While India ranks third as the country with the largest number of green buildings after US and China. Most Indian projects have demonstrated through their simplicity that green buildings and sustainable construction are not complex or high-tech ventures.

The main difference in a green building is in the approach to its design, which focuses on a concern for extending the life span of natural resources; reducing operating costs such as for use of energy and water; providing human comfort, safety and productivity. Other typical features would include the use of non-toxic, recycled and environmental friendly building materials.

However to create a pathway for sustainable construction to India's grassroots a strategic business model would need to be devised. This would provide affordable and green building materials in rural and semi-urban India. The local would need to be given an opportunity to develop this business in situ. This would help create the next generation of construction experts and also be logistically more viable. It would encourage local entrepreneurs and also help contain the costs and availability of the building materials within affordable means. While such a model could help bring together several individual vendors in an organised unit it would also provide builders with a one-stop-shop for their queries regarding adopting sustainable construction methods.



Product manufacturing at ACC Green Building Material Centre

It is important to view rural housing within the wider context of rural development and to understand and link other rural development policies. In smaller second-or third-tier cities, where average incomes tend to be lower and there may be fewer local incentives and subsidies, green buildings could appear a less attractive option. However if the awareness is created at the right time, the country could look at a healthier future. A concentrated effort could help reduce CO₂ emissions by

significant levels. The need of the hour is a sustainable model which would be designed to be able to increase capacity and capability year on year.



ACC Green Building Material Centre

*Authored by :
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Source & Credit: ACE Update January, 2016

GLIMPSES OF REAL ESTATE BILL

Background:

Real estate development and housing construction was largely the concern of State institutions till the 1980s with very few private promoters and a nascent industry. With the liberalization of the economy, conscious encouragement was given to the growth of the private sector in construction, with a great deal of success, and the sector today is estimated to contribute substantially to the country's GDP.

Currently, the real estate and housing sector is largely unregulated and opaque, with consumers often being unable to procure complete information, or to enforce accountability against builders and developers in the absence of effective regulation.

The salient features of the Bill are as under:

- a. **Applicability of the Bill:**
The proposed initial Bill was applicable for residential real estate. It is now proposed to cover both residential and commercial real estate;
- b. **Establishment of Real Estate Regulatory Authority:**
Establishment of one or more 'Real Estate Regulatory Authority' in each State/ Union Territory (UT), or one Authority for two or more States/UT, by the Appropriate Government for oversight of real estate transactions,
To appoint one or more adjudicating officers to settle disputes and impose compensation and interest;
- c. **Registration of Real Estate Projects and Registration of Real Estate Agents:**
Mandatory registration of real estate projects and real estate agents who intend to sell any plot, apartment or building, with the Real Estate Regulatory Authority;
- d. **Mandatory Public Disclosure of all project details:**
Mandatory public disclosure norms for all registered projects such as details of promoters, project, layout plan, plan of development works, land status, status of statutory approvals and disclosure of proforma agreements, names and addresses of real estate agents, contractors, architect, structural engineer etc.;
- e. **Functions and Duties of Promoter:**
Disclosure of all relevant information of project;
Adherence to approved plans and project specifications;
Obligations regarding veracity of the advertisement for sale or prospectus;
Rectify structural defects;
Refund money in cases of default;
- f. **Compulsory deposit of 50 percent:**
To compulsorily deposit 50 percent (or such lesser percent as notified by the Appropriate Government) of the amounts realized for the real estate project from the allottees in a separate account in a scheduled bank within a period of fifteen days to cover the cost of construction to be used for that purpose;
- g. **Adherence to declared plans:**
To bar the promoter from altering plans, structural designs and specifications of the plot, apartment or building without the consent of two-third allottees after disclosure;
However, minor additions or alterations permissible due to architectural and structural reasons;
- h. **Functions of Real Estate Agents:**
Real estate agents to sell properties registered with the Authority;
Maintain books of accounts, records and documents;
Not to involve in any unfair trade practices;

i. Rights and Duties of Allottees:

Right to obtain stage-wise time schedule of project;
 Claim possession as per promoter declaration;
 Refund with interest and compensation for default by the promoter;
 Allottees to make payments and fulfill responsibilities as per agreement;

j. Functions of Real Estate Regulatory Authority:

The Authority to act as the nodal agency to co-ordinate efforts regarding development of the real estate sector and render necessary advice to the appropriate Government to ensure the growth and promotion of a transparent, efficient and competitive real estate sector;

k. Fast Track Dispute Settlement Mechanism:

Fast track dispute resolution through adjudicating officers (District Judge);
 Appellate Tribunal to hear appeals;

l. Establishment of Central Advisory Council:

To advise the Central Government on implementation of the Act, recommend policy, protection of consumer interest and to foster growth and development of the real estate sector;

m. Establishment of Real Estate Appellate Tribunal:

Real Estate Appellate Tribunal to hear appeals from orders of the Authority and the adjudicating officer. The Appellate Tribunal is to be headed by a sitting or retired Judge of the High Court, with one judicial and one administrative/technical member;

n. Punitive Provisions:

Punitive provisions including de-registration of the project and penalties in case of contravention of provisions of the Bill or the orders of the Authority or Tribunal;

o. Bar of Jurisdiction Courts:

Provision for barring jurisdiction of court and any authority from entertaining complaints in respect of matters covered under the Bill;

p. Power to make Rules and Regulations:

Appropriate Government to have powers to make rules over subjects specified in the Bill;
 Regulatory Authority to have powers to make regulations;

Source & Credit: pib.nic.in

GROUND IMPROVEMENT USING ENCASED VERTICAL STONE COLUMN

Ground improvement is the modification of foundation soils or project earth structures to provide better performance under operational loading conditions. Ground improvement methods are used increasingly for new projects to allow utilization of sites with poor subsurface conditions and to allow design and construction of needed projects despite poor subsurface conditions which formerly would have rendered the project economically unjustifiable or technically not feasible. India has large coastline exceeding 6000kms. In view of the developments on coastal areas in the recent past, large number of ports and industries are being built. In addition, the availability of land for the development of commercial, housing, industrial and transportation, infrastructure etc. are scarce particularly in urban areas. This necessitated the use of land, which has weak strata, wherein the geotechnical engineers are challenged by presence of different problematic soils with varied engineering characteristics. Many of these areas are covered with thick soft marine clay deposit, with very low shear strength and high compressibility. Structures constructed on soft soil experience several problems like excessive settlements, large lateral flow of soft soil beneath the structures and loss of global or local stability. The popular remedial measure to overcome these problems is to improve the soil with the insertion of stone columns (also called granular piles) in regular grid. Soil reinforcing for bearing capacity augmentation, soil shear strength improvement, foundation settlement decrease, safety factor increase against fill slopes and earth dams stability, reduction of shrinkage and swelling properties of soil and so on. The results of such studies are useful in reinforced soil for dams, foundations, buildings, retaining walls, bridge piers and water reservoir. Out of several techniques available for improving the weak strata, stone columns have been used to a large extend for several applications. In the conventional stone Column, the Bearing Capacity of the treated ground is mainly derived from the passive resistance offered by the surrounding soil due to lateral bulging of Stone Column material under axial load. In the present work modifications to existing stone column technique proposed are carried out to evaluate the behavior of stone column as Vertical reinforcement to improve bearing capacity of soft clays. In addition to this the Encasement of Geosynthetic is suggested for enhancing the load carrying capacity of the Stone Column in treated ground.

The stone columns are nothing but vertical columnar elements formed below the ground level with compacted and uncemented stone fragments or gravels or sand. Stone columns are considered one of the most versatile

and cost-effective ground improvement techniques. Stone columns have been used extensively in weak deposits to increase the load carrying capacity, reduce settlement of structural foundations and accelerate consolidation settlements due to reduction in flow path lengths. Another major advantage with this technique is the simplicity of its construction method. Geotextile is used for encasement of stone column to provide horizontal stiffness to column.

Geosynthetics have been increasingly used in geotechnical and environmental engineering for the past 4 decades. There are a significant number of geosynthetic types and geosynthetic applications in geotechnical and environmental engineering. Geosynthetics have become well established construction materials for geotechnical applications in most parts of the world.

Geosynthetics is a generic term which includes geotextiles, geomembranes, geogrids, geonets, and geocomposites and all other similar materials used by civil engineers to improve or modify soil or rock behavior. Geosynthetics have found an important place in engineering and construction Projects. They have become an integral part of the solution to many civil engineers' problem.

The re-use of waste materials is an essential step in creating a sustainable future, and research into the re-use of different byproducts has often led to new materials that provide superior service or greater economy than those traditionally used. Waste material has been defined as any type of material by product of human and industrial activity that has no lasting value. The growing quantities and types of waste materials, shortage of landfill spaces, and lack of natural earth materials highlight the urgency of finding innovative ways of recycling and reusing waste material additionally; recycling and subsequent reuse of waste materials can reduce the demand for natural resources, which can ultimately lead to a more sustainable environment. Crushed concrete debris is used as a waste material in absence of natural aggregate.

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ADD TO YOUR VOCABULARY

- **Precast**

Concrete building components which are formed and cured at a factory and then transported to a work site for erection.

- **Punching Shear**

Shear stress in a slab due to the application of a concentrated load.

- **Quoin**

1. Projecting right angle masonry corner.
2. Corner stones lending either strength or emphasis, distinguished from the rest of the surface by greater size, different color, rustication, or the imitation of same in brick or paint; b: A large square ashlar or stone at the angle of a wall to limit the rubble and make the corner true and strong; an exterior masonry corner.
3. The keystone of an arch.
4. A wedge to support or steady a stone.

- **Rafter**

A sloping roof member that supports the roof covering which extends from the ridge or the hip of the roof to the eaves. A common rafter is one which runs square with the plate and extends to the ridge. A hip rafter extends from the outside angle of the plate to-wards the apex of the roof. They are 2" deeper or wider than common rafters. A valley rafter extends from an inside angle of the plates toward the ridge of the house.

- **Refractory Concrete**

Concrete having refractory properties, suitable for use at high temperatures. Calcium-aluminate cement and refractory aggregates are normally used for the manufacture of this project.

- **Rain Caps**

Waterproof cap, also called weather heads, mast heads or entrance caps, which is placed at the upper part of an electrical mast at the point where the wires are run to the inside electrical meter. Wires hang from the pole to the entrance cap so that the entrance cap is not the low point in the downhill run from the pole because water will run to the low point before dripping to the ground. Wires enter the entrance cap at an upward angle through a tight insulator. Water is further stopped from getting through the entrance cap because of this entrance angle.

- **Rebar**

The common term used to denote the steel reinforcement bar used to reinforce formed concrete slabs, beams or columns.

- **Redundancy**

A structural condition where there are more elements of support than are necessary for stability.

- **Rigid Frame Bridge**

A bridge with moment resistant connections between the superstructure and the substructure to produce an integral, elastic structure.

- **Rip-Rap**

Gabions, stones, blocks of concrete or other protective covering material of like nature deposited upon river and stream beds and banks, lake, tidal or other shores to prevent erosion and scour by water flow, wave or other movement.

OUR PARTNERS TO CONDUCT PRACTICALS & SUBMISSION OF PROJECT REPORTS

(AICTE approved Institutions In different States/Cities)

Andhra Pradesh	
1.	Chaitanya Engineering College Chaitanya Valley, Kommadi, Madhurawada, Visakhapatnam - 530041, Andhra Pradesh
2.	Koneru Lakshmaiah College of Engineering Green Fields, Vaddeswaram, Guntur Distt.- 522502 Andhra Pradesh
3.	Kakatiya Institute of Technology & Science Opp. Yerragattu Hillock, Vill-Bheemaram, Mandal-Hasanparthy, Warangal - 506015, Andhra Pradesh
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7.	Rajeev Gandhi Memorial College of Engg. & Tech. N.H.-18, Kurnool District, Nandyal-518501, Andhra Pradesh
8.	Mumtaz College of Engg. & Technology Malakpet, Hyderabad- 36, Andhra Pradesh
9.	KLR College of Engg. & Tech. Khammam District, Paloncha Andhra Pradesh
10.	Nagole Institute of Technology & Science Kuntloor (V), Hayathnagar (M), Hyderabad, Ranga Reddy District-501505 Gveta, Hyderabad-501505, Andhra Pradesh
Assam	
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2.	Jorhat Engineering College Government of Assam, Jorhat-785007, Assam
3.	Down Town Group of Institution Assam Down Towan University Sankar Madhab Path, Gandhi Nagar, Panikhaiti, Guwahati-781026, Assam
4.	Royal School of Engg & Technology Civil Engineering Department, Betkuchi, Guwahati-781035, Assam
5.	Nowgong Polytechnic Panigaon, Nagaon-782001, Assam
6.	School of Engg. & Technology Kaziranga University, Koraikhowa, NH 37, Jorhat-785006, Assam

Bihar	
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2.	Netaji Subhas Institute of Technology Amhara, Bihta, Patna- 801118 Bihar
Chattisgarh	
1.	Ashoka Institute of Technology & Management Gram-Torankata, Post-Somni, G.E. Road, Rajnandgaon-491441, Chhattisgarh
2.	Dignity College of Architecture NH-6, Anjora, Opposite Govt. Veterinary Hospital, Durg-491001, Chhattisgarh
Delhi	
1.	Chhotu Ram Rural Institute of Technology & Pharmacy Kanjhawala, (Ghevra), Delhi-110081
Gujarat	
1.	L. D. College of Engineering Government of Gujarat, Near Navranpura, Ahmedabad - 380015, Gujrat
2.	Government Engineering College Shamlaji Road, Modasa - 383315, Gujarat
3.	Sree Tapi Brahmcharyashram Sabha College of Diploma Engineering Opp. Spinning Mill, Varachha Road, Surat - 395006, Gujarat
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3.	Haryana College of Technology & Management P.O.Box No.44 Ambala Road, Kaithal - 136027, Haryana
4.	Sat Kabir Institute of Technology & Management Vill. Ladrawan, Teh. Bahadurgar , Dist. Jhajjar, (Near Qutubgarh-Delhi Border), Haryana-124507
5.	NCR Polytechnic Vill.-Kulasi, Bahadurgarh, Jhajjar, Haryana
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7.	Lingaya's University Nachauli, Old Faridabad, Jasana Road, Faridabad-121002, Haryana
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3.	Government Polytechnic Ranchi-834001, Jharkhand
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2.	Institute of Engineering & Computer Sciences Purkhoo Camp, Domana, Jammu- 181001, Jammu & Kashmir
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4.	Royal Polytechnic College 55-Gogji Bagh, Srinagar-190001, Jammu & Kashmir
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4.	SSM Polytechnic College Tirur- 676105, Kerala
Madhya Pradesh	
1.	Shri G.S. Institute of Technology & Science 23, Park Road, Indore, Madhya Pradesh
2.	Rishiraj Institute of Technology Village- Revati, Sanwar Road, Indore, Madhya Pradesh
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Maharashtra	
1.	Pravara Rural Engineering College Loni, A/P. Loni-413736, Tal. Rahata, Dist. Ahmednagar, Maharashtra
2.	Mahatma Gandhi Missions, Jawaharlal Nehru Engineering College N-6, CIDCO, Aurangabad – 431003 Maharashtra
3.	G.H. Raison College of Engineering CRPF Gate No. 3, Hingna Road, Digdoh Hills, Nagpur – 440016, Maharashtra
4.	Kavikulguru Institute of Technology and Science Ramtek – 441 106, Nagpur, Maharashtra
5.	Bharati Vidyapeeth University College of Engineering Pune-Satara Road, Dhankawadi Pune - 411043 , Maharashtra
6.	Aurangabad College of Engineering Gut No. 52, Tuljapur Shivar, (Savangi) Jalgaon Road, Aurangabad-431008 Maharashtra
7.	Trimurti Institute of Technology (Polytechnic) S. No. 227/2, Paldhi Bk., Next to North Maharashtra University, Tal. Dharangaon Dist. Jalgaon- 425103, Maharashtra

Odisha	
1.	Dhaneshwar Rath Institute of Engineering & Management Studies (Diploma Wing), Kairapari, Kotsahi (Tangi), Cuttack – 754022, Orissa
2.	Krupajal Engineering School Prasanti Vihar, Pubasason, Kausalya Ganga Bhubaneswar – 751002 Orissa
3.	KIIT University AT/PO. : KIIT, Bhubaneshwar – 751024, Orissa
4.	Black Diamond College of Engineering & Technology Jharsuguda (BDCET) At : Balijori, L & T Dhutra Road, Jharsuguda, Orissa-768202
5.	Sanjay Memorial Institute of Technology Chandipadar, Via : Bhattakumarada, Berhampur, Dist.-Ganjam-761003 , Orissa
6.	Gopal Krishna College of Engineering & Technology I.E.M., Gourahari Vihar, P.O.-Raniput, Jeypore, Koraput, Odisha-764005
7.	Orissa Engineering College Nabajyoti Vihar, Nijigarh Kurki, P.O.-Harirajpur, Jatni, Bhubaneswar-752050, Orissa
8.	Suddhananda Engineering & Research Centre At-Nachhipur, P.O. : Bhatapatana, Bhubaneswar, Dist : Khurda, Orissa - 752115
9.	Raja Kishore Chandra Academy of Technology (Polytechnic) At/Po : Nilgiri, Dist : Balasore, Balasore-756040, Orissa
10.	Suddhananda Residential Polytechnic At – Nachhipur, PO-Bhatapatana, Dist. Khurda-751012, Bhubaneswar
11.	SGI School of Architecture At-Nachhipur, Po-Bhatapatana, Dist-Khurda- 752115, Orissa
Punjab	
1.	Lovely Institute of Technology (Architecture) Jalandhar-Ludhiana, G.T.Road, Near Chehru Railway Bridge, Phagwara, Kapurthala-144402, Punjab
2.	Desh Bhagat Engineering College Amloh Road, Mandi Gobingarh, Punjab
3.	Guru Nanak Dev Engineering College Gill Road, Ludhiana, Punjab
4.	Institution of Engineering & Technology Bhaddal, Ropar, Punjab
Rajasthan	
1.	Sri Balaji College of Engineering & Technology Benad Road (Dadi Ka Phatak), Jaipur – 302013, Rajasthan
2.	College of Engineering and Technology Bikaner, Kani Industrial Area, Pugal Road, Bikaner-334005, Rajasthan
3.	Aayojan School of Architecture ISI-4, RIICO Institutional Block Sitapura, Goner Road Jaipur-302022 ,Rajasthan
4.	Aryabhatta College of Engineering and Research Centre Ajmer- 305001 Rajasthan
5.	Saraf Institute of Engineering & Technology

	Tibbi Road- Extension, Hanumangarh Town Rajasthan-335513
6.	Siddhi Vinayak Engineering & Management College E-I, B-1, M.1.A., Institution Area Alwar-301001 Rajasthan
7.	SLBS Polytechnic College NH-112, Jodhur-JaiOpur Highway, Dangiawas, Jodhpur-342027, Rajasthan
8.	SLBS Engineering College NH-112, Jodhpur-Jaipur Highway, Dangiawas, Jodhpur-342027, Rajasthan
9.	Laxmi Devi Institute of Engineering & Technology Alwar-Tijara-Delhi Highway, Chikaani, Alwar- 301028, Rajasthan
Tamil Nadu	
1.	Apollo Priyadarshanam Institute of Technology Panruti, Sriperumbudur Taluk, Kancheepuram District, Chennai-631604, Tamil Nadu
Uttrakhand	
1.	Dehradun Institute of Technology Mussoorle-Diversion Road, P.O. – Bhagwantpur, Dehradun, Uttrakhand
2.	Drona's College of Management & Technical Education Opposite Rajpur, Bypass, Sahastradhara Road, PO : Gujarada Dehradun-248001 Uttrakhand
Uttar Pradesh	
1.	Bundelkhand Institute of Engineering & Technology Kanpur Road, Jhansi – 284128, Uttar Pradesh
2.	Radha Govind Engineering College Anuyogipuram ,Near Medical College Garh Road, Meerut – 250004, Uttar Pradesh
3.	Gandhi Polytechnic Muzaffarnagar, Uttar Pradesh
4.	Hewett Polytechnic Mahanagar, Lucknow, Uttar Pradesh
5.	Lucknow Polytechnic Abhyantrik Upnivesh, Krishna Nagar, Kanpur Road, Lucknow Uttar Pradesh
6.	Sevdie Institute of Management & Technology, (S.I.M.T) Chinhat Deva Road, Lucknow, Uttar Pradesh
7.	North India Institute of Technology 7 th km Bundki Road, Najibabad Dist. Bijnor, Bijnor-246763 Uttar Pradesh
8.	Devprayag Institute of Technical Studies Devprayag Technical Campus, Phaphamau, Allahabad, Uttar Pradesh
9.	Jaswant Singh Bhaduria Institute of Technology Kosi Khurd Bharatpur Road Mathura- 281005, Uttar Pradesh
10.	Sunderdeep College of Architecture NH-24, Sunder Deep Nagar Delhi-Hapur Road Dasna Ghaziabad-201001 Uttar Pradesh
11.	Goel Institute of Technology & Management Lucknow –Faizabad Road, Near Indiar Canal Lucknow-227105, Uttar Pradesh
12.	M G Institute of Management & Technology 8 th Km. Mile Stone from Amausi Airport, Lucknow-Kanpur Highway, Banthara,

	Lucknow-227101, Uttar Pradesh
13.	Institute of Engineering & Rural Technology Allahabad, 26, Chaitham Lines, Allahabad-211002, Uttar Pradesh
14.	Hanswahini Institute of Science & Technology (Polytechnic) Mahuari Chakia (Near ITI Company), Post-Nibi, Nainin, Allahabad- 211008, Uttar Pradesh
15.	Dreams College of Polytechnic 5 th Km Milestone, Janta Road, Saharanpur- 247001, Uttar Pradesh
16.	Shanti Niketan Group of Institutions NCR Knowledge City, Goon-Gejha Road, Mohiuddinpur, Meerut- 201205, Uttar Pradesh
17.	Dev Bhoomi Group of Institutions Dabki Road, Village-Beri Jama, Post-Baliyakheri, Distt-Saharanpur, Saharanpur- 247001, Uttar Pradesh
West Bengal	
1.	North Calcutta Polytechnic 15, G.M. Lane, Kolkata-700002, West Bengal
2.	Camellia School of Engineering & Technology Nadibhag, P.O.-Kajipara, Barasat, Kolkata-700124, West Bengal
3.	JIS College of Engineering Block "A" Phase-III, Kalyani, Nadia, West Bengal-741235
4.	Rajmati Prichand Bothra Memorial Jiaganj College of Engineering & Technology (RPBM) At - Hatibhjan, PO. Jiagan, Dist. - Murshidabad-742123, West Bengal
5.	Narula Institute of Technology 81, Nilgunj Road, Agarpara, Kolkata-700109 West Bengal
6.	Sanaka Educational Trust's Group of Institutions B-150, Columbia Street, Bidhan Nagar, P.O. Malandighi, P.S. Kanksa, Burdwan Durgapur-713212
7.	The New Horizons Institute of Technology Phase-II, City Centre, South G.T. Road Durgapur-713208, District.- Burdwan, West Bengal.
8.	Ideal Institute of Engineering Kalyani Shilpanchal, P.O. & P.S. - Kalyani Dist.- Nadia West Bengal-741235
9.	IMPS College of Engineering & Technology Malda Nityanandapur, P.O- Chandipur (Kajigram), Malda-732103, West Bengal

ABSTRACT

Sl.No.	State	No. of MoUs
1.	Andhra Pradesh	10
2.	Assam	6
3.	Bihar	2
4.	Chhattisgarh	2
5.	Delhi	1
6.	Gujarat	5
7.	Haryana	9
8.	Himachal Pradesh	4
9.	Jammu and Kashmir	5
10.	Jharkhand	4
11.	Karnataka	2
12.	Kerala	4
13.	Madhya Pradesh	11
14.	Maharashtra	7
15.	Odisha	11
16.	Punjab	4
17.	Rajasthan	9
18.	Tamil Nadu	1
19.	Uttarakhand	2
20.	Uttar Pradesh	17
21.	West Bengal	9
	Total	125

Professional Vistas

<ul style="list-style-type: none"> • Recognition by Govt. of India, Ministry of Human Resource Development, Department of Higher Education vide Gazette Notification No. F.24/1/2007-TS.III Dated 06.11.2007.
<ul style="list-style-type: none"> • Recognition by Association of Indian Universities (AIU) vide letter No. EV/III (366)/2008/71 Dated 11.04.2008.
<ul style="list-style-type: none"> • Recognition by All India Council for Technical Education (AICTE) vide letter No. Eqvi./AB/Gen.Corr./2008-09 Dated 16.09.2008.
<ul style="list-style-type: none"> • Recognition by Union Public Service Commission (UPSC) vide letter No. F.2/1/2007-EIB Dated 30. 06.2009.
<ul style="list-style-type: none"> • Recognition for GATE by National Coordinating Board-Gate, Deptt. of Education, MHRD, Gol.
<ul style="list-style-type: none"> • Recognition by Government of Goa vide letter No.12/11/87-PER/Vol.II Dated 06.03.2008.
<ul style="list-style-type: none"> • Recognition by Directorate of Technical Education, Haryana vide letter No.351-53/Dev. Dated 13.06.2008.
<ul style="list-style-type: none"> • Recognition by Government of Kerala vide letter No.3946/GI/08/H. Edn Dated 08.07.2008
<ul style="list-style-type: none"> • Recognition by RITES Limited vide letter No. RITES/RI/RCED/Misc/2008 Dated 14.07.2008.
<ul style="list-style-type: none"> • Recognition by Delhi Development Authority (DDA) vide letter No.F.7(98)2008/PBI/2399 Dated. 20.08.2008.
<ul style="list-style-type: none"> • Recognition by Government of Meghalaya vide letter No. FDN.156/2001/249-A Dated 21.08.2008.
<ul style="list-style-type: none"> • Recognition by IRCON INTERNATIONAL LIMITED vide letter No. IRCON/HRM/31/28/728 Dated 01.09.2008.
<ul style="list-style-type: none"> • Recognition by Directorate General Border Roads vide letter No. 13616/Gen/Rect /DGBR/97/E1A Dated 21.10.2008.

<ul style="list-style-type: none"> • Recognition by Government of National Capital Territory of Delhi vide letter No.1(1)/2008-DD/SB/1520/5609 Dated 29.10.2008.
<ul style="list-style-type: none"> • Recognition by Shapoorji Pallonji & Co. Ltd. vide letter No. Nil Dated 30.10.2008.
<ul style="list-style-type: none"> • Recognition by Government of Andhra Pradesh vide letter No. 10232/EC.2/2008-02 Dated 05.11.2008.
<ul style="list-style-type: none"> • Recognition by Administration of Daman & Diu (UT) vide letter No. 10.2 (PART-IV) EST-GP/2008-09/797 Dated 11.11.2008.
<ul style="list-style-type: none"> • Recognition by CPWD- Central Public Works Department, Government of India vide letter No.A-12021/1/2006-EC VI/74-75 Dated 19.01.2009.
<ul style="list-style-type: none"> • Recognition by Visvesvaraya Technological University, Karnataka vide letter No. VTU/Aca/OS-GC/2009-10/2118 Dated 04.06.2009
<ul style="list-style-type: none"> • Recognition by Government of Nagaland vide letter No. IT/10-1/04 Dated 30.07.2009
<ul style="list-style-type: none"> • Recognition by Government of Uttarakhand, PWD, Pauri Garhwal vide letter No.1011/20(15) E.A.-Parv./09-10 Dated 06.09.2009.
<ul style="list-style-type: none"> • Recognition by Government of Chhattisgarh, Department of Technical Education, Manpower Planning, Science & Technology, Mantralaya, D.K.S Bhavan, Raipur vide letter No.F-14/07/42 Dated 11.05.2010.
<ul style="list-style-type: none"> • Recognition by Government of Punjab, Technical Education and Industrial Training, Punjab Chandigarh. vide letter No.1362 Dated 24.06.2010.
<ul style="list-style-type: none"> • Rural Electrification Corporation Limited (A Government of India Enterprises) vide letter No. REC/ED(HR)/Trg./2010-11/ Dated 10.08.2010
<ul style="list-style-type: none"> • Cement Corporation of India Ltd. (A Government of India Enterprises) vide letter No. PD/HRD/6/6/2010/6119 Dated 12.08.2010

<ul style="list-style-type: none"> • Recognition by Delhi Metro Rail Corporation Ltd. vide letter No DMRC/O&M/HR/2010 Dated 20.08.2010 	<ul style="list-style-type: none"> • Recognition by All India Management Association (AIMA) Vide No. MAT/M-14 Dated 18.12.2013
<ul style="list-style-type: none"> • Recognition by Oil and Natural Gas Corporation Ltd. Rectt. Section, Tel Bhawan, Dehradun vide letter No. 7(2)/PR-Rectt./2010 Dated 26.08.2010 	<ul style="list-style-type: none"> • Recognition by Jawaharlal Nehru Technological University, Hyderabad Vide No. MAT/M-14 Dated 18.12.20A1/1640/2014 Dated 07.01.2014
<ul style="list-style-type: none"> • Recognition by Anna University Chennai, Chennai-600025 vide letter No.2664?AU/DD1-DAC/2011/F21 Dated 07.01.2011 	<ul style="list-style-type: none"> • Recognition by NHPC Limited Vide letter No.NH/HR/Rectt./060/Int.Ind./2014/308 Dated 17.07.2014
<ul style="list-style-type: none"> • Recognition by Government of West Bengal, Directorate of Technical Education & Training, Kolkata vide letter No.728 TET Dated 28.03.2011 	<ul style="list-style-type: none"> • Recognition by Instrumentation Limited Vide letter No. IL/CPD/Rectt-73/2014-15 Dated 18.07.2014
<ul style="list-style-type: none"> • Recognition by Government of Karnataka Vide Govt. order No. ED 21 UTV 2012 Dated 09.03.2012 	<ul style="list-style-type: none"> • Recognition by Rajasthan Technical University Vide website Notification dated 07.07.2014
<ul style="list-style-type: none"> • Recognition by State Board of Technical Education and Training, Andhra Pradesh, Hyderabad Vide letter No. No. Lr.No.SBTEL/B5-775/596/EQUI/2012 Dated 02/04/2013 	<ul style="list-style-type: none"> • Recognition by XAT Vide Fax dated 14.11.2014
<ul style="list-style-type: none"> • Recognition by Maharshi Dayanand University Rohtak Vide letter No. AC-3/2013/F-207/4085-98 Dated 26.04.2013 	<ul style="list-style-type: none"> • Recognition by University of Mumbai Vide letter No. Elg/2331 of 2014 dated 26.11.2014
<ul style="list-style-type: none"> • Recognition by Andhra Pradesh Public Service Commission Vide letter No.1549/RN/2012 dated 29.04.2013 	<ul style="list-style-type: none"> • Recognition by Army Vide letter No.B/60202/ RTG UES dated 28.11.2014
<ul style="list-style-type: none"> • Recognition by CAT Vide e- mail Dated 23.07.2013 	<ul style="list-style-type: none"> • Recognition by Mahatma Gandhi University, Kerala Vide letter No. AcD/02/4092/2014 dated 2.12.2014
<ul style="list-style-type: none"> • Recognition by Birla Institute of Technology, Mesra Ranchi-835215 Vide letter no. GO/ICE(I)/13-14/3781 Dated 05.08.2013 	<ul style="list-style-type: none"> • Recognition by Assam Don Bosco University, Assam Vide letter No. DBU/SM/33/15-01 dated 3rd March,2015
<ul style="list-style-type: none"> • Recognition by Public Service Commission, West Bengal Vide No. 101PSC(S&R)/2M-1/09(S&R)(Pt) Dated 07.08.2013 	<ul style="list-style-type: none"> • Counselling Cell of Directorate of Technical Education Government of Madhya Pradesh Vide Website details : Dte.mponline.gov.in
<ul style="list-style-type: none"> • Karnataka Public Service Commission Vide No. R(i)484/13-1 Dated 30.09.2013 	<ul style="list-style-type: none"> • Recognition by Govt. of Himachal Pradesh Vide letter No. EDN(TE)F(10)1/2012 dated 24th August,2015
<ul style="list-style-type: none"> • The Institution of Engineers (India) Vide No. EEA/ACC/3179/A KG Dated 11.11.2013 	<ul style="list-style-type: none"> • National Scholarship Portal https://www.scholarships.gov.in
<ul style="list-style-type: none"> • Meghalaya Public Service Commission Vide No. MPSC/E-27/2011-2012/85 Dated 15.11.2013 	<ul style="list-style-type: none"> • Maharshi Dayanand University, Rohtak Vide letter No. AC-3/2016/F-208/7967-68 dated 20th May, 2016

AN
EVER
EXPANDING
LIST
OF
RECOGNITION
OF
ICE(I)
EXAMINATIONS

[TO BE PUBLISHED IN PART-1 SECTION -I OF GAZATTE OF INDIA]

Government of India
Ministry of Human Resource Development
Department of Higher Education

Shastri Bhawan, New Delhi,
the 6th November, 2007

NOTIFICATION

No.F.24 – 1 / 2007 – TS.III. On the recommendations of the High Level Committee for recognition of Educational Qualifications in its meeting held on 22nd May 2007, the Government of India has decided to give recognition to the Section A & B of Associate Membership course, equivalent to Degree and Part – I & II of Technician Engineers (T) equivalent to Diploma in Civil Engineering and Architecture Engineering Courses conducted by the Institution of Civil Engineers (India), Ludhiana (Punjab) as per syllabus approved by All India Council for Technical Education (AICTE) w.e.f. the academic session 2007 – 2008 for the purpose of employment to the posts and services under Central Government in the appropriate field. It is subject to the conditions that the total number of candidates who can be admitted for the said examination would not exceed the authorized strength of the concerned Institutions with which Institution of Civil Engineers (India), Ludhiana (Punjab) has entered into Memorandum of Understanding (MOUs). A review in respect of recognition of educational qualifications shall be made by Ministry of Human Resource Development after one year through All India Council for Technical Education (AICTE).

(RAVI MATHUR)
Joint Secretary to the Government of India
Tel: 2338 1097

To

The Manager,
Government of India Press,
Faridabad.

..contd./-

(भारत के राजपत्र के भाग-। खण्ड-। में प्रकाशन के लिए)

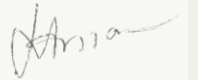
भारत सरकार
मानव संसाधन विकास मंत्रालय
उच्चतर शिक्षा विभाग

शास्त्री भवन, नई दिल्ली

6 नवम्बर, 2007

अधिसूचना

सं.एफ. 24-1/2007-टी.एस.।।। शैक्षणिक योग्यताओं को मान्यता प्रदान करने के लिए उच्च स्तरीय समिति की दिनांक 22 मई, 2007 की बैठक में की गई सिफारिशों के आधार पर भारत सरकार ने उपर्युक्त क्षेत्र में केन्द्रीय सरकार की सेवाओं तथा पदों पर रोजगार देने के उद्देश्य से शैक्षणिक सत्र, 2007-08 से सिविल इंजीनियरी संस्थान (भारत), लुधियाना (पंजाब) के अखिल भारतीय तकनीकी शिक्षा परिषद द्वारा अनुमोदित पाठ्यचर्या अनुसार संचालित सिविल इंजीनियरी और वास्तुकला इंजीनियरी पाठ्यक्रमों में एसोशिएट सदस्यता पाठ्यक्रम की धारा (क) और (ख) को डिग्री के समकक्ष और तकनीकी इंजीनियरों (त) के भाग 1 और 11 को डिप्लोमा के समकक्ष मान्यता प्रदान करने का निर्णय लिया है। यह मान्यता इस शर्त के अधीन होगा कि अभ्यर्थियों की कुल संख्या उक्त परीक्षा के लिए सम्बन्धित संस्थान की अधिकृत दाखिला क्षमता से अधिक नहीं हो जिसके साथ सिविल इंजीनियरी संस्थान (भारत), लुधियाना (पंजाब) ने संगम ज्ञापन किया है। मानव संसाधन विकास मंत्रालय एक वर्ष के बाद अखिल भारतीय तकनीकी शिक्षा परिषद के माध्यम से शैक्षणिक योग्यताओं की मान्यता की पुनरीक्षा करेगा।


(रवि माथुर)

संयुक्त सचिव, भारत सरकार

दूरभाष: 23381097

सेवा में,

प्रबंधक

भारत सरकार प्रैस

फरीदाबाद।

Please visit ICE(I) Notification At MHRD Website :
www.education.nic.in/Tech/Recoeduqualfs.pdf

SNIPPETS

A P R I L - 2016

FOUNDATION DAY CEREMONY OF ENGINEERING COUNCIL OF INDIA

On completion of 14 years of service to the Indian Engineering Profession, Engineering Council of India celebrated its Foundation Day at SCOPE Complex, New Delhi on 4th April, 2016. On this occasion the Eminent Engineer Awards 2016 were also given by the Chief Guest Shri Suresh Prabhu, Hon'ble Union Railway Minister, Govt. of India, in recognition of significant contribution to the engineering profession to:-

Dr. D.V. Kapur- Industry Category.

Dr. Ashok Jhunjunwala-Research and Consultancy Category.

The Programme was well attended by galaxy of professional bodies of engineers from all over the country. ICE(I) was also represented at the above ceremony.

MAIL TODAY ENERGY SUMMIT

Mail Today, the premier news daily from India Today Group organized 2nd Edition of Mail Today Energy Summit on 5th April 2016 wherein the Key Speakers at the event were:-

Shri Piyush Goyal, Ministers of State (IC) of New & Renewable Energy ,Power, Coal &

Shri Dharmendra Pradhan, Minister of State (IC) of Petroleum & Natural Gas.

The Programme was well attended by galaxy of professional bodies of Engineers. ICE(I) was also represented at the above ceremony.

M A Y - 2016

GRANT OF RECOGNITION TO TECHNICIAN MEMBERSHIP (T. ENGG.) EXAMINATION OF ICE(I) BY MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Maharshi Dayanand University, Rohtak has given recognition to Technician Membership (T. Engg.) Examination in Civil Engg. and Architecture Engg. conducted by The Institution of Civil Engineers (India) for the purpose of admission to B.Tech (Civil Engg.) 3rd Semester from the session 2015-2016.

The Maharshi Dayanand University has already recognized Section A & B of Associate Membership AMICE(I) examination conducted by ICE(I) as equivalent to B.E./B.Tech course of the University vide order No.AC-3/2013/F-207/4085-98 26.04.2013.

J U N E - 2016

**PANEL DISCUSSION ORGANIZED
BY INDIAN COUNCIL FOR RESEARCH ON INTERNATIONAL ECONOMIC RELATIONS
(ICRIER)**

A Panel Discussion was organized by Indian Council for Research on International Economic Relations (ICRIER) in collaboration with Oxford University Press on the occasion of the release of the book – The World in 2050: Striving for a More Just, Prosperous and Harmonious Global Community, edited by Dr. Harinder Kohli, Director and Chief Executive of the Emerging Markets Forum (EMF), Washington D.C. The event was held at Tamarind Hall, India Habitat Centre on 7th June, 2016 at 6.00 PM.

ICE(I) was also represented at the above launch.

3rd INDIA EDUCATION SUMMIT

The BW Businessworld conducted 3rd India Education Summit on Moving Towards Global Relevance & Competitiveness. The event was held at The Grand New Delhi.

ICE(I) was also represented at the summit on 30th June,2016.

Some *Reflections.*

on

Executive Committee Meeting of Asian Civil Engineering Coordinating Council on 26th March,2016

Engr. Didarul Alam, F. ASCE, F. IEB
Secretary
ASCE Bangladesh IS
Dhaka

I would like to express my hearty thanks and gratitude for sending me the snapshots of ACECC Conference which I received this morning. I would also appreciate ICE(I)'s role in successful hosting the meeting with cordial hospitality in an orchestrated manner. All the items of the cultural evening were simply wonderful! We enjoyed every bit of the grand entertaining occasion and the reminiscence of which shall remain fresh and vivid in our memories for days to come. The sightseeing tour was also worth mentioning.

Happy News

We are pleased to notify that a large number of candidates have joined the Government of Nepal, Ministry of Urban Development and have started their journey of employment after completing the course from ICE(I). Congrats to all the candidates concerned and wishing them a rewarding career.

Alumni.....A Lifelong Relationship ! Keep it alive!

Alumni Engagement is at the core of the Institution of Civil Engineers (India). Keeping this in mind, the institution has worked towards building a strong alumni community and will continue to work in this direction.

“Alumni are the true brand ambassadors of their Alma Mater and represent it everywhere they go. They truly reflect the values of the institution from which they have graduated.

In order to actively engage our alumni, The Institution of Civil Engineers (India) encourages alumni participation to bring them together by providing a forum for meeting and exchange of views, to facilitate professional networking for mutual benefit and to contribute to the Institution’s efforts for achieving excellence in academics and research through sharing knowledge and expertise of its members in areas pertaining to academics, infrastructure, industry interactions and others, if any.

The Alumni are also invited for seminars, conferences, advancement programs etc. to enhance their learning’s which they can further use in their own respective work areas.

Keep reading this column for more news and updates on our Alumni.....!!.

The Members, who have not yet enrolled, may get in touch with us on icei.alumni@gmail.com or at Delhi Office.

Secretary General



THE INSTITUTION OF CIVIL ENGINEERS (INDIA)

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Email: icei.alumni@gmail.com Website: www.ice.net.in

ALUMNI MEMBERSHIP FORM

1 Name (In Capital Letters) : _____

2 Father's Name : _____

3 Membership Certificate obtained : T.Engg./AMICE
from ICE(I) with details : Membership No. _____
Roll No. _____
Session of Completion of the Course _____

4 Profession after completion of the : _____
course : _____

5 Present Occupation with : _____
Designation & Office Address : _____

6 Correspondence Address : _____
: _____
: _____

7 Contact Details : E-mail ID _____
Telephone Nos: Office _____
Residence _____
Mobile: _____

8 Any special achievement awards : _____
: _____

9 Remarks : _____
: _____
: _____

Dated _____
Member

Signature of the

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