Ferrocement Housing in Kerala

CSR Funds are utilized for housing of affected people. Kerala sets record of ferrocement housing.

Ferrocement Technology is a need of the day especially in rural areas where people spend more money in building houses without any assistance from an architect or engineer. Such buildings are not safe against flood, earthquakes or storm, resulting in collapse of buildings during natural calamities. The conventional buildings need heavy substructure to bear the self weight of building itself and are very much prone to tilting or sinking during flood. Ferrocement being homogeneous and its monolithic construction pattern helps to withstand vertical as well as horizontal pressure implied on it during calamities. Moreover Ferrocement buildings acquire 20% less footprint compared to conventional buildings. It is benefiting during mass housing projects giving room for more units in the same extent of land. Ferrous or steel being the main component, it is reusable and thus the technology can be said sustainable and Eco friendly. (Contd on page 2)

Late V D Joshi Award 2020

As usual Ferrocement Society has announced the competition for the Best Ferrocement structure Award in 2020. Every year on 3rd September Ferrocement Society of India gives Late V D Joshi award to the winner. This function is on the occasion of the 8th FERROCEMENT DAY. Detailed notification (page 5) can be found on the website. Rules can be seen on page 5. Last date to submit the entries is 15th August 2020.

Any ferrocement structure constructed during last 2 years is eligible for the competition. Jury panel may visit the site if necessary. Details like photos, report, videos, presentations are necessary along with the proper innovative use of ferrocement in it. The award is given in the name of Famous structural Engineer Vishnu Joshi, Pune, who was the pioneer of ferrocement technology in India.
Kerala Ferrocement Housing

In Kerala hundreds of buildings are built in Ferrocement technology since 1993. Commercial, residential and religious buildings are there in the success list. Recently Kerala Ferrocement Society has completed 35 low budget houses in the flood affected areas with CSR funds. Considering present market rates of materials, labour and machinery, construction of a such a safe and durable house is not possible using conventional construction methods. Ferrocement technology has proven its success in Kerala. These houses are safe in Kerala climatic condition. This can be seen as the first construction in ferrocement technology has completed 25+ years. It is standing without any micro crack in the structure. Ferrotechnologies, Er. Biji John has done good work in Kerala.

K.R.Nale builds Ferrocement Vault

K R Nale is a ferrocement expert constructor. Recently in December 2019 he constructed a Ferrocement roof vault of size 100 feet by 48 feet for ST corporation Chandwad. Designed by Ar. Kothavade, Structural design by Himanshu Tulpule, the main work contractor was N M Sonawane.

Welcome new members

1. Dr Padma Priya R.
   Chennai (TN)
2. Chandrakant Gavhane,
   Nanded
3. Mohan E. Desai,
   Thane
4. Narendra A. Lodha,
   Nashik
5. L. K. Jain Structural Designer, Nagpur
6. Prof. Rohan Gurav, Belga-
   vi (KN)
7. Dr. Nandkishor R. Ekbo-
   te, Pune
8. Ar. Rashmi Vyawahare,
   Pune

Corporate and Institutional Memberships are now open. Members get 50% discount on all our products, like convention fees, publications, workshops etc. One day workshops are very popular in arch. And engineering colleges. Please contact us.
Sanjeevani COE Kopargaon webinar series

Dr. M.S. Purkar, HOD recently organized a webinar series on concrete developments. Er. Ulhas Paranjape from Jalvardhini Pratishthan delivered various alternatives to store water. He has experience of training the villagers to use ferrocement for water tanks. He also spoke about natural fibers for reinforcement.

Er. Chandramohan Hangekar delivered a webinar on Applications of Ferrocement in the World. About 200 delegates attended from various states in India. He emphasized the use of ferrocement as structural component and whenever curves are to be constructed ferrocement will be economical. Dr. Patankar delivered webinar on geopolymer concrete. The webinar series was organized by Sanjeevani COE, jointly with Institution of Engineers (India) Ahmednagar Local Centre, Ferrocement Society of India and Jalvardhini Pratishthan, Mumbai. Prof D. More and Dr. Patankar took efforts for its success.

Jalvardhini

Jalvardhini Pratishthan promotes and trains the villagers to build ferrocement water tanks. One such water tank was constructed by villagers of Village DURGADI in Bhor tehsil in Pune District. The tank was constructed within 7 days. Villagers have given voluntary service of labour. They excavated the marked layout. Then joined the meshes as directed. They first built the platform or the plinth of stone masonry. The work is appreciated by all.

AISSMS COE, Pune webinar

Dr. Suresh Parekar Academic co-ordinator, AISSMS College of Engineering, Pune recently organized a webinar for students and professionals. The main subject was alternative technologies, Ferrocement applications. Er. Chandramohan Hangekar, President of Ferrocement Society, India delivered his speech on use of ferrocement technology for different innovative applications. The webinar was attended by about 300 delegates in India. Er. Hangekar told that this is a green material as use of soil bricks and timber is avoided in construction. Architects must think of this technology as they need to construct curved shapes often. While engineers need to know the design and technique of ferrocement as they will come across such execution in field. Director Suresh Shinde appreciated the webinar.
Students in Amrutvahini College of Engineering, Ghulewadi, Sangamner have taken a project to construct a small check dam. The dam is built on a small nalla near village Velhale near Harebaba Temple Tal. Sangamner. The multiple ferrocement dam has many advantages over the RCC dam. The dam project is guided by ferrocement society. Such 30 dams are already constructed in India after the first BALCHAN-DRA bandhara in 2014 at Botawadi. This project has 2 arches of one meter. They compared the cost with concrete. The cost of bandhara was around Rs 7000. The arches were 1.5 in height. The backwater spread was 200 meters. The storage of water was around 5 lakh litres. The water stored was utilized for irrigating the adjacent land. Students who participated in the project were Ankita Kshatriya, Pranali Malunjkar, Gajakas Sukeshani and Tejashree Kolhal. It was guided by R T Sangale under the guidance of Prof. A. J. Mehetre and Prof. N. M. More. Project title was Rural based technology on ferrocement check dam. Onkar Bhand, Pramod Pophale, Devyani Deshmukh and Akar Shinde presented it. Dr. S. V. Patankar visited and appreciated this site. Dr. Gurav was HOD that time. Now Dr. M. R. Wakchaure is HOD Civil Engg Department. Amrutvahini College of Engineering is always instrumental in such projects related to new rural technologies.

Balchandra Bandhara was built in 2014 near Pune. After this the idea of using multiple arches for the small check dam was promoted by the Ferrocement Society. Many such small check dams were constructed near Aurangabad, Dhule and even in other states like Gujarat. The arch action of the ferrocement petal shape supported by stiffeners is important. A new such book written by Er Chandramohan Hangekar is being published shortly. Members of Ferrocement Society get 50 % discount on the purchase of publications of the society.
FERROCEMENT SOCIETY (INDIA) CELEBRATES
8th FERROCEMENT DAY
3 SEPT 2020 AT 5 PM
PUNE

LATE V.D.JOSHI MEMORIAL LECTURE AND LATE V.D.JOSHI AWARD WILL BE GIVEN TO THE WINNER OF
ALL INDIA COMPETITION FOR BEST FERROCEMENT STRUCTURE LATE V. D. JOSHI AWARD

RULES-
1) Any human, contractor, engineer, architect, institute or owner of the structure, can participate in the competition.
2) He/ she must have built the ferrocement structure in any country across the World.
3) The structure must not be older than 2 years. Repeat entries are not allowed.
4) Under construction structures will also be considered. (at least 90% completion)
5) Designs and photos are to be submitted in CD form. Videos of construction are also welcome.
6) Panel of Juries may visit the site and confirm the details.
7) Aesthetics, structural design, execution, use of shapes for strength, are some factors for consideration. A detailed note on the uniqueness of the structure is to be attached with designs and drawings.
8) All the submission in CD form and a forwarding letter is to be submitted to following address by post, courier or by hand before 15th August 2020. late submission will not be considered.
9) AWARD ceremony is scheduled on 3 September 2020 at PUNE.

Address for correspondence-
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E-mail : ferrocement@gmail.com
India Chapter of ACI had organized “Excellence in Concrete Construction” awards. They received excellent response for the competition.

Post the successful deliberations of the jury, Nandkumar Jadhav’s Magnus Cavern Resort was selected at first place winner of the ICACI Excellence in Construction Awards. His award is in the category as Decorative concrete.

Mr Sindhu, Mr Anurag Mishra, Mr. T. Nandkumar and Mr S A Subramanian were the other winners in different categories. The online function was organized on 16th May 2020 at 11 am.