



POORNIMA

COLLEGE OF ENGINEERING

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A

**National Webinar
On
Understanding Cement Test Reports**

Friday, May 29, 2020

**Coordinated by:
Mr.Divya Vishnoi
(Department of Civil Engineering, PCE)**

**Mr. Balwan Sheshma
(HOD, Department of Civil Engineering, PCE)**


Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
131-6, RIICO Institutional Area
Stapura, JAIPUR



ABOUT THE SPEAKER:

Mr. Pavan Y. Sethi, Zonal Head, JK White Cement Ltd.

Mr Pavan Y. Sethi has an experience spanning over 20 years in technical services. He has worked with national brands like Ambuja Cements Ltd., Jaypee group, Sanghi Cement & Construction Projects. Now, He is working with another world leader Jk Cement Ltd. His Expertise is in the field of cement & concrete technology, High grade & Special concrete like light weight concrete, high density concrete, Mineral admixture modified green concrete - GGBS and Fly ash & High performance concrete using chemical admixtures like High range PC based admixtures.

BRIEF REPORT:

Poornima College of Engineering (PCE), Jaipur organized a distinguished Webinar on **UNDERSTANDING CEMENT TEST REPORTS** on Friday i.e. May 29, 2020 at 03:00 PM. More than 250 participants registered in the event and more than 110 students have attended the Distinguished Lecture from all over India.


Mr. Pankaj Dhemia, Vice Principal ((Poornima College of Engineering) introduced about the topic and speaker. He also mentioned that this webinar will be helpful for Site Engineers & Quality Control Engineers to deliver good quality of work.

During the technical discussions **Mr. Pavan Y. Sethi** focused on physical and chemical analysis of the higher grade of OPC and PPC Cement. He discussed about the physical analysis such as setting times, compressive strength, fineness etc and chemical analysis such as loss of ignition, sulphur content, magnesia and alkalies etc. He also showed their actual result with requirement as per Indian standards for quality purpose. He also discussed about the benefits of white cement and wall putty with results. In the end Questions were asked by the participants and good suggestions were given by the speaker. He informed to

participants about 30th architect of the year award (AYA) and motivated them for participation.

Mr. Balwan Sheshma, HoD, Department of Civil Engineering (Poornima College of Engineering) proposed the votes of thanks to the speaker and mentioned the knowhow of being in the industry along with all participants.

POSTER OF WEBINAR:



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WEBINAR

Organized by
Department of Civil Engineering

SPEAKER


Mr. Pavan Y. Sethi
Zonal Head, JK White Cement






Live Interaction

Understanding Cement Test Reports

 **FRIDAY, MAY 29, 2020**

Registration link:
<http://tiny.cc/nunopz>
Last Date for registration **May 27, 2020**

 **TIME 03:00 PM - 04:00 PM**

Session Through **CISCO WEBEX**
Contact Number:
+91-8440845083/+91-8769040200

E-Certificate will be issued to all Participants

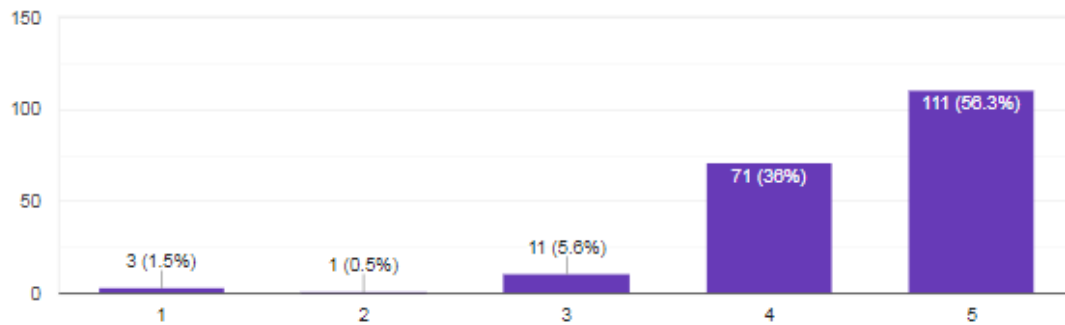

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FEEDBACK OF WEBINAR:

Feed Back Form

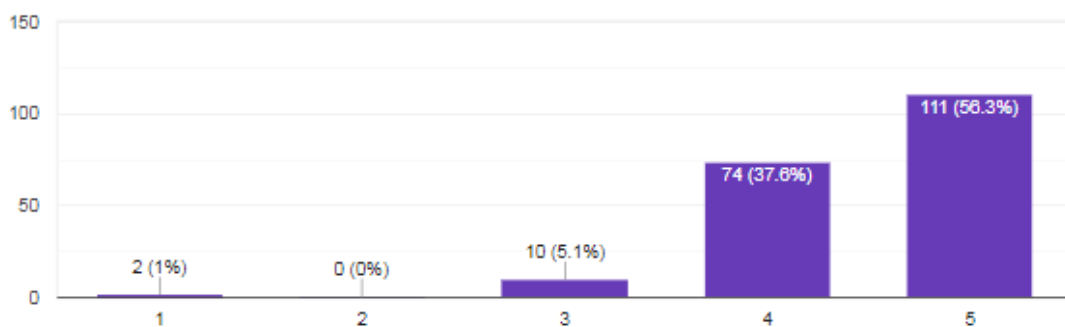
The content was organized and easy to follow

197 responses

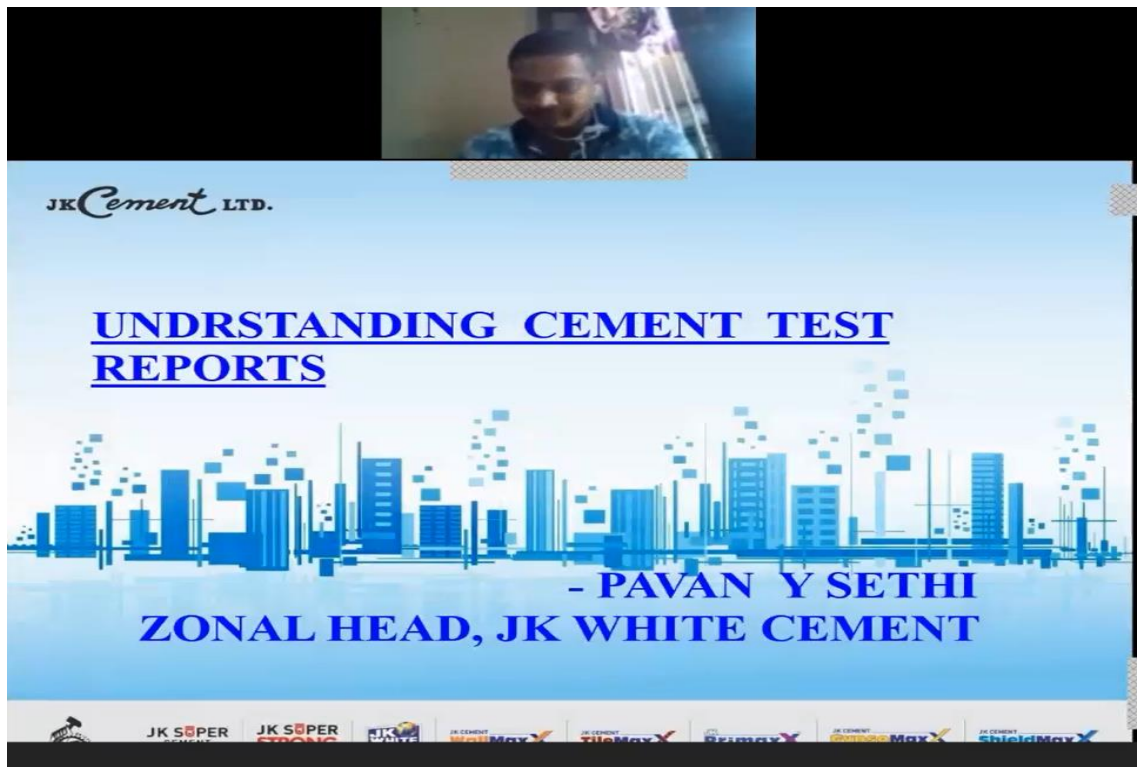


Over all rating for the Webinar session

197 responses



GLIMPSE OF WEBINAR



JK Cement LTD.

PHYSICAL ANALYSIS - 1. SETTING TIME

CEMENT TYPE	OPC 53 REQUIREMENT	OPC 53 ACTUAL RESULT	PPC REQUIREMENT	PPC ACTUAL RESULT
INITIAL SETTING TIME (IST)	MIN. 30 MINUTES	100-150 MINS	MIN .30 MINUTES	120-150 MINS
FINAL SETTING TIME (FST)	MAX. 600 MINUTES	180-210 MINS	MAX. 600 MINUTES	180-240 MINS

THE SETTING TIME OF CEMENT PASTE IS DEFINED BY ITS INITIAL & FINAL SETS.

THE TIME AT WHICH INITIAL SET TAKES PLACE IS, WHEN THE CEMENT PASTE BEGINS TO STIFFEN CONSIDERABLY & THE FINAL SET ROUGHLY INDICATES TIME, AT WHICH THE PASTE HAS STARTED TO HARDEN, JUST ENOUGH TO SUPPORT SOME LOAD.

AS PER IS CODE, REQUIREMENTS FOR INITIAL & FINAL SETTING TIME ARE 30 MINS. MINIMUM & 600 MINS. MAXIMUM RESPECTIVELY. TODAY'S CEMENTS HAVE AN ACTUAL IST & FST RANGE AS MENTIONED IN TABLE.

JK SUPER CEMENT, JK SUPER STRONG, JK WHITE CEMENT, JK CEMENT WallMaxX, JK CEMENT TileMaxX, JK CEMENT PrimaxX, JK CEMENT SupremeMaxX, JK CEMENT ShieldMaxX

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4. STANDARD / NORMAL CONSISTENCY

CEMENT TYPE	OPC 53 REQUIREMENTS	OPC 53 ACTUAL RESULTS	PPC REQUIREMENTS	PPC ACTUAL RESULTS
STD. CONSISTENCY	N.A.	28-31 %	N.A.	29-31.5 %

DEFINITION - STD. CONSISTENCY OF CEMENT PASTE IS DEFINED AS THAT CONSISTENCY (% OF WATER) WHICH PERMITS VICAT PLUNGER TO PENETRATE UP TO 5 TO 7 MM. FROM THE BOTTOM OF VICAT MOULD.

STD. CONSISTENCY OR NORMAL CONSISTENCY (NC) IS REFERRED TO AS - THAT 'PERCENTAGE OF WATER' TO BE ADDED TO CEMENT TO MAKE A PASTE OF STANDARD CONSISTENCY.

A CEMENT WITH LOWER N.C. WILL HAVE 'LESSER WATER' DEMAND FOR MAKING A WORKABLE CONCRETE MIX THAN A CEMENT WITH HIGHER N.C. ; HENCE SUCH CEMENT WILL BE PREFERRED BY A QUALITY CONTROL ENGINEER AT SITE.

Participants (107)

Search

HOD CIVIL Me

HOD CIVIL Host

1001813

2018poccekshtij17

Aakash Sharma

Abhishek Chanda

Chat

Ravi Sharma
ravimbm21@gmail.com
from Rafiq Bahleem to everyone: yes sir 3:16 PM

To: --- Please Select ---

Enter chat message here

Cisco Webex Meetings

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JK Cement LTD.

CHEMICAL ANALYSIS

1. LOSS ON IGNITION

CEMENT TYPE	OPC 53 REQUIREMENT	OPC 53 ACTUAL RESULTS	PPC REQUIREMENTS	PPC ACTUAL RESULTS
LOSS ON IGNITION (LOI)	MAX 4 %	1.5 TO 3 %	MAX 5 %	1.5 TO 3 %

THIS TEST IS CONDUCTED AT 950 DEGREE CELSIUS AND IT GIVES AN INDICATION OF PREHYDRATION & CARBONATIN OF CEMENT.

THE AMOUNT OF OF 'LOI' IS GENERALLY AN INDICATION OF FRESHNESS OF CEMENT.

FOR LOI, THE GUIDELINES FOR OPC 53 IS STRICTER THAN THAT FOR PPC.

THE PERMISSIBLE LIMITS & ACTUAL RESULT RANGE FOR TODAY'S CEMENTS ARE AS MENTIONED IN THE TABLE.

Participants (109)

Search

HOD CIVIL Host, me

1001813

2018poccekshtij17

Aakash Sharma

Abhishek Chanda

Abhishek Katarriya

Aditya Singh Rajawat

Akash meena

akshat sharma

Amar Kumar

Amit Golder

Amol Singh Ramanar

Anand Kumar

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The screenshot shows a Cisco Webex Meeting interface. The main presentation slide is titled "JK Cement LTD. WHITE PORTLAND CEMENT (WPC)". It contains four blue boxes with text:

- White Portland Cement is governed by I.S. 8042-2015 for its detailed specifications.
- For architectural purposes, a pastel finish is sometimes required for finishing and decorative work in concrete, which is achieved by using WPC. This type of cement has also an advantage that it is not liable to cause staining, since it has low content of soluble alkalis.
- White Portland cement is made from raw materials containing very little Iron Oxide and Manganese Oxide. Limited quantities of certain chemicals which will improve whiteness of cement, without affecting the physical properties, may be added during manufacture. Eg. Dolomite.
- Due to high input costs of raw materials and the process for production & quality control, WPC is much costlier than OPC/PPC.

Below the text boxes are logos for various cement brands: JK SUPER CEMENT, JK SUPER STRONG, JK CEMENT, WallMax, TileMax, Primax, and ShieldMax. The right sidebar shows a list of participants (110) and a chat window with a message from "pavan.sethi" at 3:27 PM.

The screenshot shows a Cisco Webex Meeting interface. The main presentation slide is titled "JK Cement LTD. #JKAYAlHere 30th Architect of the Year Awards JK AYA". It features a blue background with a yellow sun icon and the text "HUNT FOR INDIA'S TOP ARCHITECTS IS BACK". Below this, it says "30th Architect of the Year Awards JK AYA" and "#YourTimeYourSpot". There are three green boxes with statistics: "14 Unique Awards", "29 Golden Years", and "400+ Brilliant Awarders". At the bottom, it says "NOMINATIONS NOW OPEN" and "APPLY NOW". Below the slide, it says "For details please visit : www.aya-jkcement.com". The right sidebar shows a list of participants (109) and a chat window with a message from "pavan.sethi" at 3:27 PM.


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LIST OF STUDENTS:

Poornima College of Engineering				
Department of Civil Engineering				
List of Students (Session 2019-20) - II Year				
B. Tech. (Civil Engineering)				
S. No.	Enrolment ID / College ID	Name of the Student	Diploma (Y/N)	Year of Joining
1	PCE18CE001	AHMED	N	2018-19
2	PCE18CE002	AIZAZ	N	2018-19
3	PCE18CE003	AMAN CHATURVEDI	N	2018-19
4	PCE18CE005	ANIL GUPTA	N	2018-19
5	PCE18CE006	ARVIND SINGH RATHORE	N	2018-19
6	PCE18CE007	ASTHA CHATURVEDI	N	2018-19
7	PCE18CE008	CHANDRA PRAKASH	N	2018-19
8	PCE18CE009	DEEPAK JHIRWAL	N	2018-19
9	PCE18CE010	DEEPESH YADAV	N	2018-19
10	PCE18CE011	DIVYANSHU KUMAWAT	N	2018-19
11	PCE18CE012	FALANSH SHARMA	N	2018-19
12	PCE18CE013	GOVIND KUMAR MEENA	N	2018-19
13	PCE18CE014	HARSH AGRAWAL	N	2018-19
14	PCE18CE015	HIMANSHU RAJPUT	N	2018-19
15	PCE18CE016	HITESH KUMAR MINA	N	2018-19
16	PCE18CE017	KSHITIJ FOFLIYA	N	2018-19
17	PCE18CE018	LAKSHYA GUPTA	N	2018-19
18	PCE18CE020	MAHENDRA KUMAR CHOUDHARY	N	2018-19
19	PCE18CE021	MANOKAMNA SINGH	N	2018-19
20	PCE18CE022	MOHAMMED AMAN DAYER	N	2018-19
21	PCE18CE024	PAYASH CHOUDHARY	N	2018-19
22	PCE18CE025	PIYUSH GARG	N	2018-19
23	PCE18CE026	PRAKSHIT RAJORIYA	N	2018-19
24	PCE18CE027	PRANJUL MITTAL	N	2018-19
25	PCE18CE028	RAJAT KUMAR	N	2018-19
26	PCE18CE030	REENA KOHLI	N	2018-19
27	PCE18CE031	RESHMA CHOUDHARY	N	2018-19
28	PCE18CE032	RUCHI AGARWAL	N	2018-19
29	PCE18CE033	SATYAM SHARMA	N	2018-19
30	PCE18CE034	SAURABH KUMAR	N	2018-19
31	PCE18CE035	SHAKTI RATHORE	N	2018-19
32	PCE18CE037	SHUBHAM KUMAR K	N	2018-19

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33	PCE18CE038	SHUBHAM NAIR	N	2018-19
34	PCE18CE039	SUMER YADAV	N	2018-19
35	PCE18CE040	VIKAS RANJAN	N	2018-19
36	PCE18CE041	HARSH JANGIR	N	2018-19
37	PCE18CE042	ABHISHEK NIGAM	N	2018-19


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