



# THE INDIA CEMENTS LIMITED

WORKS : MALKAPUR - 501158, P.B. No. 07, SY. No. 51,  
TANDUR MANDAL, RANGA REDDY DIST., TELANGANA  
Tel : 08411 - 242247, 242324 to 242326, Fax : 08411 - 242302



AN IS/ISO 9001:2015 CERTIFIED COMPANY

## COROMANDEL KING SUPERIOR OPC 53 GRADE CEMENT TEST CERTIFICATE

### PARTICULARS

### TEST RESULTS



Specification as per  
IS 269:2015

#### **A CHEMICAL REQUIREMENTS:**

|   |                              |       |           |
|---|------------------------------|-------|-----------|
| 1 | LSF (Lime Saturation factor) | 0.91  | 0.80-1.02 |
| 2 | Alumina Modulus              | 1.09  | Min 0.66  |
| 3 | Insoluble residue (%)        | 2.53  | Max 5.0   |
| 4 | Magnesia (%)                 | 1.10  | Max 6.0   |
| 5 | Sulphuric Anhydride (%)      | 2.48  | Max.3.5   |
| 6 | Loss on Ignition (%)         | 2.52  | Max.4.0   |
| 7 | Chloride (%)                 | 0.013 | Max 0.10  |

#### **B PHYSICAL REQUIREMENTS:**

|   |                                            |      |          |
|---|--------------------------------------------|------|----------|
| 1 | Specific Surface Area (M <sup>2</sup> /kg) | 301  | Min. 225 |
| 2 | Soundness                                  |      |          |
|   | a) Le Chatelier (mm)                       | 1.7  | Max 10   |
|   | b) Autoclave (%)                           | 0.04 | Max 0.8  |
| 3 | Setting Time (minutes)                     |      |          |
|   | a) Initial                                 | 135  | Min 30   |
|   | b) Final                                   | 250  | Max 600  |
| 4 | Compressive Strength(Mpa)                  |      |          |
|   | a) 3 Days                                  | 35.5 | Min 27   |
|   | b) 7 Days                                  | 45.4 | Min 37   |
|   | c) 28 Days                                 | 57.3 | Min 53   |

The sample complies with the requirements of IS 269:2015 for 53 Grade Ordinary Portland Cement.

Date of Despatch: 13.08.2021 to 19.08.2021 Week No: 33

Permitted Performance improvers are added (Type: Limestone: 2.0% & Flyash: 3.0%)



HOD (QA)

Registered Office : "DHUN BUILDING", 827, Anna Salai, CHENNAI - 600 002.

Corporate Office : Coromandel Towers, 93, Santhome High Road, Karpagam Avenue, R.A. Puram, CHENNAI - 600 028

Phones : (044) 28521526 / 28521527 Fax : (044) 28528106, www.indiacements.co.in

E.CC.No. AAAC1728PXM010, SERVICE TAX No. AAAC1728PST017, PAN No. AAAC1728P

TIN No. 36220189434, TAN No. HYDT03638F

Railway Siding Code : MICT 09528512, Corporate Identity No. (CIN) : L26942TN1946PLC000931



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AN IS/ISO 9001:2015 CERTIFIED COMPANY

## COROMANDEL OPC 43 GRADE CEMENT TEST CERTIFICATE

### PARTICULARS

### TEST RESULTS



Specification as per  
IS 269:2015

#### **A CHEMICAL REQUIREMENTS:**

|   |                              |       |           |
|---|------------------------------|-------|-----------|
| 1 | LSF (Lime Saturation factor) | 0.90  | 0.66-1.02 |
| 2 | Alumina Modulus              | 1.06  | Min 0.66  |
| 3 | Insoluble residue (%)        | 2.56  | Max 5.0   |
| 4 | Magnesia (%)                 | 1.07  | Max 6.0   |
| 5 | Sulphuric Anhydride (%)      | 2.54  | Max.3.5   |
| 6 | Loss on Ignition (%)         | 2.64  | Max 5.0   |
| 7 | Chloride (%)                 | 0.015 | Max 0.10  |

#### **B PHYSICAL REQUIREMENTS:**

|   |                                            |      |                 |
|---|--------------------------------------------|------|-----------------|
| 1 | Specific Surface Area (M <sup>2</sup> /kg) | 287  | Min. 225        |
| 2 | Soundness                                  |      |                 |
|   | a) Le Chatelier (mm)                       | 1.7  | Max 10          |
|   | b) Autoclave (%)                           | 0.04 | Max 0.8         |
| 3 | Setting Time (minutes)                     |      |                 |
|   | a) Initial                                 | 135  | Min 30          |
|   | b) Final                                   | 250  | Max 600         |
| 4 | Compressive Strength(Mpa)                  |      |                 |
|   | a) 3 Days                                  | 33.6 | Min 23          |
|   | b) 7 Days                                  | 43.9 | Min 33          |
|   | c) 28 Days                                 | 53.8 | Min 43 & Max 58 |

The sample complies with the requirements of IS 269:2015 for 43 Grade Ordinary Portland Cement

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Permitted Performance improvers are added (Type: Limestone: 2.0% & Flyash: 3.0%)



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## AN IS/ISO 9001:2015 CERTIFIED COMPANY COROMANDEL KING SUPER POWER PPC (FA BASED) TEST CERTIFICATE

| <u>PARTICULARS</u>              |                                            | <u>TEST RESULTS</u> |  Specification as per<br>IS:1489(Part-1):2015 |
|---------------------------------|--------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>A CHEMICAL REQUIREMENTS:</b> |                                            |                     |                                                                                                                                  |
| 1                               | Sulphuric Anhydride (%)                    | 2.41                | Max 3.5                                                                                                                          |
| 2                               | Magnesia (%)                               | 1.14                | Max 6.0                                                                                                                          |
| 3                               | Loss on Ignition (%)                       | 2.60                | Max 5.0                                                                                                                          |
| 4                               | Insoluble Residue (%)                      | 26.02               | Max $X + [4(100-X)/100]$                                                                                                         |
| 5                               | Chloride (%)                               | 0.013               | Max. 0.1                                                                                                                         |
| <b>B PHYSICAL REQUIREMENTS:</b> |                                            |                     |                                                                                                                                  |
| 1                               | Specific Surface Area (M <sup>2</sup> /kg) | 337                 | Min. 300                                                                                                                         |
| 2                               | Soundness                                  |                     |                                                                                                                                  |
|                                 | a) Le Chatelier (mm)                       | 1.7                 | Max 10                                                                                                                           |
|                                 | b) Autoclave (%)                           | 0.034               | Max 0.8                                                                                                                          |
| 3                               | Setting Time (minutes)                     |                     |                                                                                                                                  |
|                                 | a) Initial                                 | 135                 | Min 30                                                                                                                           |
|                                 | b) Final                                   | 250                 | Max 600                                                                                                                          |
| 4                               | Compressive Strength (Mpa)                 |                     |                                                                                                                                  |
|                                 | a) 3 Days                                  | 24.1                | Min. 16                                                                                                                          |
|                                 | b) 7 Days                                  | 34.7                | Min. 22                                                                                                                          |
|                                 | c) 28 Days                                 | 45.1                | Min. 33                                                                                                                          |
| 5                               | %Drying Shrinkage                          | Results Awaited     | Max. 0.15                                                                                                                        |
| C                               | % of Flyash                                | 29.00               | Min 15 and Max 35                                                                                                                |

The above cement complies to IS: 1489 (Part-1):2015 Portland Pozzolana Cement (Fly ash based).

Date of Despatch: 13.08.2021 to 19.08.2021 Week No: 33





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### PARTICULARS

### TEST RESULTS



Specification as per  
IS 269:2015

#### A CHEMICAL REQUIREMENTS:

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#### B PHYSICAL REQUIREMENTS:

|   |                                            |      |          |
|---|--------------------------------------------|------|----------|
| 1 | Specific Surface Area (M <sup>2</sup> /kg) | 301  | Min. 225 |
| 2 | Soundness                                  |      |          |
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| 3 | Setting Time (minutes)                     |      |          |
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|---------------------------------|--------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>A CHEMICAL REQUIREMENTS:</b> |                                            |                     |                                                                                                                         |
| 1                               | LSF (Lime Saturation factor)               | 0.90                | 0.66-1.02                                                                                                               |
| 2                               | Alumina Modulus                            | 1.06                | Min 0.66                                                                                                                |
| 3                               | Insoluble residue (%)                      | 2.56                | Max 5.0                                                                                                                 |
| 4                               | Magnesia (%)                               | 1.07                | Max 6.0                                                                                                                 |
| 5                               | Sulphuric Anhydride (%)                    | 2.54                | Max.3.5                                                                                                                 |
| 6                               | Loss on Ignition (%)                       | 2.64                | Max 5.0                                                                                                                 |
| 7                               | Chloride (%)                               | 0.015               | Max 0.10                                                                                                                |
| <b>B PHYSICAL REQUIREMENTS:</b> |                                            |                     |                                                                                                                         |
| 1                               | Specific Surface Area (M <sup>2</sup> /kg) | 287                 | Min. 225                                                                                                                |
| 2                               | Soundness                                  |                     |                                                                                                                         |
|                                 | a) Le Chatelier (mm)                       | 1.7                 | Max 10                                                                                                                  |
|                                 | b) Autoclave (%)                           | 0.04                | Max 0.8                                                                                                                 |
| 3                               | Setting Time (minutes)                     |                     |                                                                                                                         |
|                                 | a) Initial                                 | 135                 | Min 30                                                                                                                  |
|                                 | b) Final                                   | 250                 | Max 600                                                                                                                 |
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