



# 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              | 1.03  | Min 0.66  |
| 3 | Insoluble residue (%)        | 2.46  | Max 5.0   |
| 4 | Magnesia (%)                 | 1.05  | Max 6.0   |
| 5 | Sulphuric Anhydride (%)      | 2.45  | Max.3.5   |
| 6 | Loss on Ignition (%)         | 2.70  | Max.4.0   |
| 7 | Chloride (%)                 | 0.012 | Max 0.10  |

#### B PHYSICAL REQUIREMENTS:

|   |                                            |                 |          |
|---|--------------------------------------------|-----------------|----------|
| 1 | Specific Surface Area (M <sup>2</sup> /kg) | 330             | Min. 225 |
| 2 | Soundness                                  |                 |          |
|   | a) Le Chatelier (mm)                       | 1.0             | Max 10   |
|   | b) Autoclave (%)                           | 0.02            | Max 0.8  |
| 3 | Setting Time (minutes)                     |                 |          |
|   | a) Initial                                 | 123             | Min 30   |
|   | b) Final                                   | 215             | Max 600  |
| 4 | Compressive Strength(Mpa)                  |                 |          |
|   | a) 3 Days                                  | 37.0            | Min 27   |
|   | b) 7 Days                                  | 49.2            | Min 37   |
|   | c) 28 Days                                 | Results awaited | Min 53   |
| 5 | NC(%)                                      | 26.0            | --       |
| 6 | Sp.Gravity (gm/CC)                         | 3.13            | --       |

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

Date of Despatch: 25.06.2022 to 01.07.2022 Week No: 26

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



*S. Anand*

**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              | 1.04  | Min 0.66  |
| 3 | Insoluble residue (%)        | 2.59  | Max 5.0   |
| 4 | Magnesia (%)                 | 1.07  | Max 6.0   |
| 5 | Sulphuric Anhydride (%)      | 2.21  | Max.3.5   |
| 6 | Loss on Ignition (%)         | 2.76  | Max 5.0   |
| 7 | Chloride (%)                 | 0.013 | Max 0.10  |

#### B PHYSICAL REQUIREMENTS:

|   |                                            |                 |                 |
|---|--------------------------------------------|-----------------|-----------------|
| 1 | Specific Surface Area (M <sup>2</sup> /kg) | 300             | Min. 225        |
| 2 | Soundness                                  |                 |                 |
|   | a) Le Chatelier (mm)                       | 1.0             | Max 10          |
|   | b) Autoclave (%)                           | 0.03            | Max 0.8         |
| 3 | Setting Time (minutes)                     |                 |                 |
|   | a) Initial                                 | 125             | Min 30          |
|   | b) Final                                   | 218             | Max 600         |
| 4 | Compressive Strength(Mpa)                  |                 |                 |
|   | a) 3 Days                                  | 34.9            | Min 23          |
|   | b) 7 Days                                  | 46.4            | Min 33          |
|   | c) 28 Days                                 | Results awaited | Min 43 & Max 58 |
| 5 | NC(%)                                      | 26.7            | --              |
| 6 | Sp.Gravity(gm/CC)                          | 3.14            | --              |

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

Date of Despatch: 25.06.2022 to 01.07.2022 Week No: 26

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

### PARTICULARS

### TEST RESULTS



Specification as per  
IS:1489(Part-1):2015

#### A CHEMICAL REQUIREMENTS:

|   |                         |       |                          |
|---|-------------------------|-------|--------------------------|
| 1 | Sulphuric Anhydride (%) | 2.18  | Max 3.5                  |
| 2 | Magnesia (%)            | 1.08  | Max 6.0                  |
| 3 | Loss on Ignition (%)    | 2.56  | Max 5.0                  |
| 4 | Insoluble Residue (%)   | 24.38 | Max $X + [4(100-X)/100]$ |
| 5 | Chloride (%)            | 0.013 | Max. 0.1                 |

#### B PHYSICAL REQUIREMENTS:

|    |                                            |                 |                   |
|----|--------------------------------------------|-----------------|-------------------|
| 1  | Specific Surface Area (M <sup>2</sup> /kg) | 340             | Min. 300          |
| 2  | Soundness                                  |                 |                   |
| a) | Le Chatelier (mm)                          | 1.0             | Max 10            |
| b) | Autoclave (%)                              | 0.02            | Max 0.8           |
| 3  | Setting Time (minutes)                     |                 |                   |
| a) | Initial                                    | 120             | Min 30            |
| b) | Final                                      | 210             | Max 600           |
| 4  | Compressive Strength (Mpa)                 |                 |                   |
| a) | 3 Days                                     | 27.3            | Min. 16           |
| b) | 7 Days                                     | 39.5            | Min. 22           |
| c) | 28 Days                                    | Results awaited | Min 33            |
| 5  | % Drying Shrinkage                         | Results awaited | Max 0.15          |
| 6  | % of Flyash                                | 27.0            | Min 15 and Max 35 |
| 7  | NC(%)                                      | 27.3            | --                |
| 8  | Sp.Gravity(gm/CC)                          | 2.90            | --                |

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

Date of Despatch: 25.06.2022 to 01.07.2022 Week No: 26



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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              | 1.03  | Min 0.66  |
| 3 | Insoluble residue (%)        | 2.46  | Max 5.0   |
| 4 | Magnesia (%)                 | 1.05  | Max 6.0   |
| 5 | Sulphuric Anhydride (%)      | 2.45  | Max.3.5   |
| 6 | Loss on Ignition (%)         | 2.70  | Max.4.0   |
| 7 | Chloride (%)                 | 0.012 | Max 0.10  |

#### B PHYSICAL REQUIREMENTS:

|   |                                            |                 |          |
|---|--------------------------------------------|-----------------|----------|
| 1 | Specific Surface Area (M <sup>2</sup> /kg) | 330             | Min. 225 |
| 2 | Soundness                                  |                 |          |
|   | a) Le Chatelier (mm)                       | 1.0             | Max 10   |
|   | b) Autoclave (%)                           | 0.02            | Max 0.8  |
| 3 | Setting Time (minutes)                     |                 |          |
|   | a) Initial                                 | 123             | Min 30   |
|   | b) Final                                   | 215             | Max 600  |
| 4 | Compressive Strength(Mpa)                  |                 |          |
|   | a) 3 Days                                  | 37.0            | Min 27   |
|   | b) 7 Days                                  | 49.2            | Min 37   |
|   | c) 28 Days                                 | Results awaited | Min 53   |
| 5 | NC(%)                                      | 26.2            | --       |
| 6 | Sp.Gravity(gm/CC)                          | 3.13            | --       |

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

Date of Despatch: 25.06.2022 to 01.07.2022 Week No: 26



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AN IS/ISO 9001:2015 CERTIFIED COMPANY

## COROMANDEL KING SUPERIOR 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              | 1.04  | Min 0.66  |
| 3 | Insoluble residue (%)        | 2.59  | Max 5.0   |
| 4 | Magnesia (%)                 | 1.07  | Max 6.0   |
| 5 | Sulphuric Anhydride (%)      | 2.21  | Max 3.5   |
| 6 | Loss on Ignition (%)         | 2.76  | Max 5.0   |
| 7 | Chloride (%)                 | 0.013 | Max 0.10  |

#### B PHYSICAL REQUIREMENTS:

|   |                                            |                 |                   |
|---|--------------------------------------------|-----------------|-------------------|
| 1 | Specific Surface Area (M <sup>2</sup> /kg) | 300             | Min. 225          |
| 2 | Soundness                                  |                 |                   |
|   | a) Le Chatelier (mm)                       | 1.0             | Max 10            |
|   | b) Autoclave (%)                           | 0.03            | Max 0.8           |
| 3 | Setting Time (minutes)                     |                 |                   |
|   | a) Initial                                 | 125             | Min 30            |
|   | b) Final                                   | 218             | Max 600           |
| 4 | Compressive Strength(Mpa)                  |                 |                   |
|   | a) 3 Days                                  | 34.9            | Min 23            |
|   | b) 7 Days                                  | 46.4            | Min 33            |
|   | c) 28 Days                                 | Results awaited | Min 43 and Max 58 |
| 5 | NC(%)                                      | 26.7            | --                |
| 6 | Sp.Gravity(gm/CC)                          | 3.14            | --                |

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

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## CONCRETE SUPER KING PORTLAND POZZALONA CEMENT (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 (%)                    | 2.12                | Max 3.5                                                                                                                         |
| 2                               | Magnesia (%)                               | 1.02                | Max 6.0                                                                                                                         |
| 3                               | Loss on Ignition (%)                       | 2.55                | Max 5.0                                                                                                                         |
| 4                               | Insoluble Residue (%)                      | 12.55               | Max $X + [4(100-X)/100]$                                                                                                        |
| 5                               | Chloride (%)                               | 0.012               | Max. 0.1                                                                                                                        |
| <b>B PHYSICAL REQUIREMENTS:</b> |                                            |                     |                                                                                                                                 |
| 1                               | Specific Surface Area (M <sup>2</sup> /kg) | 352                 | Min. 300                                                                                                                        |
| 2                               | Soundness                                  |                     |                                                                                                                                 |
| a)                              | Le Chatelier (mm)                          | 1.0                 | Max 10                                                                                                                          |
| b)                              | Autoclave (%)                              | 0.02                | Max 0.8                                                                                                                         |
| 3                               | Setting Time (minutes)                     |                     |                                                                                                                                 |
| a)                              | Initial                                    | 118                 | Min 30                                                                                                                          |
| b)                              | Final                                      | 210                 | Max 600                                                                                                                         |
| 4                               | Compressive Strength (Mpa)                 |                     |                                                                                                                                 |
| a)                              | 3 Days                                     | 34.9                | Min. 16                                                                                                                         |
| b)                              | 7 Days                                     | 44.9                | Min. 22                                                                                                                         |
| c)                              | 28 Days                                    | Results awaited     | Min 33                                                                                                                          |
| 5                               | % Drying Shrinkage                         | Results awaited     | Max 0.15                                                                                                                        |
| 6                               | % of Flyash                                | 15.0                | Min 15 and Max 35                                                                                                               |
| 7                               | NC(%)                                      | 26.7                | --                                                                                                                              |

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

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