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| S.No. | Product /<br>Material of Test                | Specific Test Performed        | Test Method Specification<br>against which tests are<br>performed | Range of Testing /<br>Limits of Detection |
|-------|--|--------------------------------|---|---|
| I. BU | ILDING MATERIA                               | LS                             |   |   |
| 1.    | Cement / Clinker<br>OPC 33 Grade,            | LOI                            | IS 4032-1985, RA 2009   | 0.2 to 15%                                |
|       | OPC 43 Grade,<br>OPC 53 Grade,<br>SRPC, PSC, | SiO <sub>2</sub>               | IS 4032-1985, RA 2009<br>IS 12803-1989, RA 2004 (XRF)             | 16 to 40%                                 |
|       | PPC, WPC,<br>Masonary Cement                 | Fe <sub>2</sub> O <sub>3</sub> | IS 4032-1985, RA 2009<br>IS 12803-1989, RA 2004 (XRF)             | 0.1 to 10%                                |
|       |  | Al <sub>2</sub> O <sub>3</sub> | IS 4032-1985, RA 2009<br>IS 12803-1989, RA 2004 (XRF)             | 2 to 15%                                  |
|       |  | CaO                            | IS 4032-1985, RA 2009<br>IS 12803-1989, RA 2004 (XRF)             | 45 to 70%                                 |
|       |  | MgO                            | IS 4032-1985, RA 2009<br>IS 12803-1989, RA 2004 (XRF)             | 0.2 to 10%                                |
|       |  | SO <sub>3</sub>                | IS 4032-1985, RA 2009<br>IS 12803-1989, RA 2004 (XRF)             | 0.2 to 10%                                |
|       |  | IR                             | IS 4032-1985, RA 2009   | 0.2 to 40%                                |
|       |  | Na <sub>2</sub> O              | NCB Monograph<br>MS- 13-2010                                      | 0.02 to 1%                                |

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|-------|-----------------------------------|--------------------------------|---|---|
|       | Cement / Clinker<br>OPC 33 Grade, | K <sub>2</sub> O               | NCB Monograph<br>MS- 13-2010                                      | 0.05 to 1%                                |
|       | OPC 43 Grade,<br>OPC 53 Grade,    | Sulphide Sulphur               | IS 4032-1985, RA 2009   | 0.02 to 2%                                |
|       | SRPC, PSC,<br>PPC, WPC,           | MnO                            | IS 4032-1985, RA 2009   | 0.02 to 2%                                |
|       | Masonary Cement                   | Cl                             | IS 4032-1985, RA 2009   | 0.002 to 0.5%                             |
|       |                                   | $Mn_2O_3$                      | IS 12423-1988, RA 2005  | 0.02 to 2 %                               |
|       |                                   | TiO <sub>2</sub>               | IS 12423-1988, RA 2005  | 0.02 to 2%                                |
|       |                                   | $P_2O_5$                       | IS 12423-1988, RA 2005  | 0.02 to 2%                                |
|       |                                   | Free Lime                      | IS 4032-1985, RA 2009   | 0.02 to 20%                               |
| 2.    | Limestone                         | LOI                            | IS 1760 (Part 1)-1991, RA 2001                                    | 25 to 44%                                 |
|       |                                   | SiO <sub>2</sub>               | IS 1760 (Part 2)-1991, RA 2001                                    | 5 to 25%                                  |
|       |                                   | Fe <sub>2</sub> O <sub>3</sub> | IS 1760 (Part 3)-1992, RA 2001                                    | 0.2 to 5%                                 |
|       |                                   | Al <sub>2</sub> O <sub>3</sub> | IS 1760 (Part 3)-1992, RA 2001                                    | 0.2 to 5%                                 |
|       |                                   | CaO                            | IS 1760 (Part 3)-1992, RA 2001                                    | 30 to 55%                                 |
|       |                                   | MgO                            | IS 1760 (Part 3)-1992, RA 2001                                    | 0.5 to 15%                                |
|       |                                   |                                |   |   |

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| 6.No. | Product /<br>Material of Test | Specific Test Performed        | Test Method Specification<br>against which tests are<br>performed              | Range of Testing /<br>Limits of Detection |
|-------|-------------------------------|--------------------------------|--|---|
|       | Limestone                     | Cl                             | IS 1760 (Part 5)-1991, RA 2001   | 0.005 to 1%                               |
|       |                               | Free silica                    | IS 1760 (Part 6)-2001  | 2.0 to 25%                                |
|       |                               | Na <sub>2</sub> O              | NCB Monograph<br>MS- 13-2010   | 0.02 to 2%                                |
|       |                               | K <sub>2</sub> O               | NCB Monograph<br>MS- 13-2010   | 0.02 to 2%                                |
|       |                               | Mn <sub>2</sub> O <sub>3</sub> | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.02 to 2%                                |
|       |                               | TiO <sub>2</sub>               | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.02 to 2%                                |
|       |                               | P <sub>2</sub> O <sub>5</sub>  | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.02 to 2%                                |
| 3.    | Clay / Bauxite                | LOI                            | IS 2000 (Part 1)-1985, RA 2001   | 5.0 to 25%                                |
|       |                               | SiO <sub>2</sub>               | IS 2000 (Part 2)-1985, RA 2001   | 25 to 70%                                 |
|       |                               | Fe <sub>2</sub> O <sub>3</sub> | IS 2000 (Part 4)-1985, RA 2001<br>& NCB Validated Method/<br>ITL/TP/04/2002    | 5.0 to 20%                                |

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|-------|-------------------------------|--------------------------------|--|---|
|       | Clay / Bauxite                | Al <sub>2</sub> O <sub>3</sub> | IS 2000 (Part 3)-1985, RA 2001<br>& NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 5.0 to 70%                                |
|       |                               | CaO                            | NCB Validated Method/<br>ITL/TP/06/2002<br>Issue No. 02, Issue date:12/06/2014                                     | 2.0 to 15%                                |
|       |                               | MgO                            | NCB Validated Method/<br>ITL/TP/06/2002<br>Issue No. 02, Issue date:12/06/2014                                     | 1.0 to 5%                                 |
|       |                               | Cl                             | NCB Monograph<br>MS- 13-2010   | 0.005 to 1%                               |
|       |                               | Na <sub>2</sub> O              | NCB Monograph<br>MS- 13-2010   | 0.02 to 2%                                |
|       |                               | K <sub>2</sub> O               | NCB Monograph<br>MS- 13-2010   | 0.02 to 2%                                |
|       |                               | Mn <sub>2</sub> O <sub>3</sub> | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014                                     | 0.01 to 1%                                |
|       |                               | TiO <sub>2</sub>               | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014                                     | 0.01 to 7%                                |

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|-------|-------------------------------|--------------------------------|---|---|
|       | Clay / Bauxite                | P <sub>2</sub> O <sub>5</sub>  | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014                            | 0.02 to 1%                                |
| 4.    | Pozzolanic                    | LOI                            | IS 1727-1967, RA 2004   | 0.2 to 5%                                 |
|       | material                      | SiO <sub>2</sub>               | IS 1727-1967, RA 2004   | 42.0 to 65%                               |
|       |                               | Fe <sub>2</sub> O <sub>3</sub> | IS 1727-1967, RA 2004<br>& NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 2.0 to 10%                                |
|       |                               | Al <sub>2</sub> O <sub>3</sub> | IS 1727-1967, RA 2004<br>& NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 20.0 to 40%                               |
|       |                               | CaO                            | IS 1727-1967, RA 2004<br>& NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.5 to 5%                                 |
|       |                               | MgO                            | IS 1727-1967, RA 2004<br>& NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.20 to 5%                                |
|       |                               | SO <sub>3</sub>                | IS 1727-1967, RA 2004   | 0.10 to 10%                               |

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|-------|-------------------------------|--------------------------------|--|---|
|       | Pozzolanic<br>material        | Cl                             | IS 4032-1985   | 0.005 to 1%                               |
|       | materiai                      | Na <sub>2</sub> O              | NCB Monograph<br>MS- 13-2010   | 0.05 to 2%                                |
|       |                               | K <sub>2</sub> O               | NCB Monograph<br>MS- 13-2010   | 0.05 to 2%                                |
|       |                               | Mn <sub>2</sub> O <sub>3</sub> | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 1%                                 |
|       |                               | TiO <sub>2</sub>               | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 10%                                |
|       |                               | P <sub>2</sub> O <sub>5</sub>  | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 3%                                 |
|       | Slag                          | LOI                            | IS 4032-1985, RA 2005  | 0.5 to 2%                                 |
|       |                               | SiO <sub>2</sub>               | IS 4032-1985, RA 2005  | 25.0 to 40%                               |
|       |                               | Fe <sub>2</sub> O <sub>3</sub> | IS 4032-1985, RA 2005  | 0.20 to 10%                               |
|       |                               | Al <sub>2</sub> O <sub>3</sub> | IS 4032-1985, RA 2005  | 5.0 to 20%                                |
|       |                               | CaO                            | IS 4032-1985, RA 2005  | 15.0 to 40%                               |
|       |                               |                                |  |   |

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|----------|-------------------------------|-------------------------------|--|---|
|          | Slag                          | MgO                           | IS 4032-1985, RA 2005  | 5.0 to 20%                                |
|          |                               | IR                            | IS 4032-1985, RA 2005  | 0.10 to 10%                               |
|          |                               | Na <sub>2</sub> O             | NCB Monograph<br>MS- 13-2010   | 0.03 to 1%                                |
|          |                               | K <sub>2</sub> O              | NCB Monograph<br>MS- 13-2010   | 0.03 to 1%                                |
|          |                               | Sulphide sulphur              | IS 4032-1985, RA 2005  | 0.2 to 5%                                 |
|          |                               | MnO                           | IS 4032-1985, RA 2005  | 0.5 to 8%                                 |
|          |                               | $Mn_2O_3$                     | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 1%                                 |
|          |                               | TiO <sub>2</sub>              | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 2%                                 |
|          |                               | P <sub>2</sub> O <sub>5</sub> | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 1%                                 |
|          |                               | Cl                            | IS 4032-1985, RA 2009  | 0.005 to 1%                               |
| <b>.</b> | Aggregates                    | Alkali Aggregate Reactivity   | IS 2386 (Part-7)-1963, RA 2002   | 2 to 500 millimoles/l                     |

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|--------------|-------------------------------|--------------------------------|--|---|
| <b>II. O</b> | RES & MINERALS                |                                |  |   |
| 1.           | Gypsum                        | Free water                     | IS 1288-1982, RA 2006  | 0.2 to 15%                                |
|              |                               | Combined water                 | IS 1288-1982, RA 2006  | 0.2 to 25%                                |
|              |                               | Silica + Acid insoluble        | IS 1288-1982, RA 2006  | 2.0 to 15%                                |
|              |                               | SiO <sub>2</sub>               | IS 1288-1982, RA 2006  | 2.0 to 10%                                |
|              |                               | Fe <sub>2</sub> O <sub>3</sub> | IS 1288-1982, RA 2006  | 0.2 to 2%                                 |
|              |                               | Al <sub>2</sub> O <sub>3</sub> | IS 1288-1982, RA 2006  | 0.2 to 2%                                 |
|              |                               | CaO                            | IS 1288-1982, RA 2006  | 25 to 40%                                 |
|              |                               | MgO                            | IS 1288-1982, RA 2006  | 0.2 to 1%                                 |
|              |                               | SO <sub>3</sub>                | IS 1288-1982, RA 2006  | 25 to 45%                                 |
|              |                               | Cl                             | IS 4032-1985   | 0.005 to 1%                               |
|              |                               | Na <sub>2</sub> O              | NCB Monograph<br>MS- 13-2010   | 0.03 to 5%                                |
|              |                               | K <sub>2</sub> O               | NCB Monograph<br>MS- 13-2010   | 0.03 to 5%                                |
|              |                               | Mn <sub>2</sub> O <sub>3</sub> | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 1%                                 |

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|-------|-------------------------------|--------------------------------|--|---|
|       | Gypsum                        | TiO <sub>2</sub>               | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014                                     | 0.1 to 10%                                |
|       |                               | P <sub>2</sub> O <sub>5</sub>  | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014                                     | 0.1 to 3%                                 |
| 2.    | Iron ore / Laterite           | LOI                            | IS 1493 (Part-1)-1981, RA 2001   | 0.5 to 15%                                |
|       |                               | SiO <sub>2</sub>               | IS 1493 (Part-1)-1981, RA 2001   | 0.5 to 40%                                |
|       |                               | Fe <sub>2</sub> O <sub>3</sub> | IS 1493 (Part-1)-1981, RA 2001<br>& NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 60 to 90%                                 |
|       |                               | Al <sub>2</sub> O <sub>3</sub> | IS 1493 (Part-1)-1981, RA 2001<br>& NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 10 to 25%                                 |
|       |                               | CaO                            | IS 1493 (Part-1)-1981, RA 2001   | 0.2 to 2%                                 |
|       |                               | MgO                            | IS 1493 (Part-1)-1981, RA 2001   | 0.2 to 2%                                 |
|       |                               | Cl                             | NCB MONOGRAPH<br>MS- 13-2010   | 0.005 to 1%                               |

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|-------|-------------------------------|--------------------------------|--|---|
|       | Iron ore / Laterite           | Na <sub>2</sub> O              | NCB MONOGRAPH<br>MS- 13-2010   | 0.02 to 2%                                |
|       |                               | K <sub>2</sub> O               | NCB MONOGRAPH<br>MS- 13-2010   | 0.02 to 2%                                |
|       |                               | Mn <sub>2</sub> O <sub>3</sub> | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 1%                                 |
|       |                               | TiO <sub>2</sub>               | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 5%                                 |
|       |                               | P <sub>2</sub> O <sub>5</sub>  | NCB Validated Method/<br>ITL/TP/04/2002<br>Issue No. 02, Issue date:12/06/2014 | 0.1 to 2%                                 |
| II. C | COAL, COKE & OTH              | IER SOLID FUEL                 |  |   |
| •     | Coal / Coke                   | Moisture                       | IS 1350 (Part-1)-1984, RA 2002   | 0.2 to 50%                                |
|       |                               | Ash                            | IS 1350 (Part-1)-1984, RA 2002   | 5.0 to 60%                                |
|       |                               | Volatile matter                | IS 1350 (Part-1)-1984, RA 2002   | 30.0 to 50%                               |
|       |                               | Fixed carbon                   | IS 1350 (Part-1)-1984, RA 2002   | By calculations                           |
|       |                               | Sulphur                        | IS 1350 (Part-3)-1969, RA 2005   | 1.0 to 10%                                |
|       |                               | Gross Calorific value          | IS 1350 (Part-2)-1970, RA 2005   | 1500 to 10000 cal/gm                      |

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|  | IV. V | WATER                   |                      |                                 |                 |
|--|-------|-------------------------|----------------------|---------------------------------|-----------------|
|  | 1.    | Water for               | Alkalinity           | IS 3025 (Part-23)-1986, RA 2003 | 0.1 to 50 ml    |
|  |       | Construction<br>Purpose | Acidity              | IS 3025 (Part-22)-1986, RA 2003 | 0.1 to 50 ml    |
|  |       |                         | Inorganic Impurities | IS 3025 (Part-18)-1984, RA 2002 | 10 to 5000 mg/l |
|  |       |                         | Suspended Matter     | IS 3025 (Part-23)-1984, RA 2002 | 10 to 5000 mg/l |
|  |       |                         | Organic Impurities   | IS 3025 (Part-17)-1984, RA 2002 | 10 to 500 mg/l  |
|  |       |                         | Chlorides            | IS 3025 (Part-32)-1988, RA 2003 | 10 to 3000 mg/l |
|  |       |                         | Sulphates            | IS 3025 (Part-24)-1986, RA 2003 | 10 to 600 mg/l  |
|  |       |                         | рН                   | IS 3025 (Part-11)-1983, RA 2002 | 5 to 10         |
|  |       |                         |                      |                                 |                 |