

Employer for any purpose or in any manner other than for which they have been supplied by the contractor or specified or implied under this contract.

#### 19.23 **BLASTING OPERATIONS**

No blasting shall be carried out without permission of Engineer. In carrying out blasting the contractor shall take all precautions to avoid damage or injuries to persons or property and shall indemnify the Employer against any claim resulting from such operations.

#### 19.24 **DEATH, BANKRUPTCY ETC.**

If the contractor dies or commits any act of bankruptcy, or the Company go into liquidation except for reconstruction purpose or its business is carried on by a receiver, the executors, successors or other representative in law of the contractor or any such receiver, liquidator, or any person in whom the contract may become vested, shall forthwith give notice thereof in writing to the Employer and shall take all responsible steps to prevent a stoppage of works, have the option of carrying out the contract subject to his or their providing such guarantee as may be required by the Employer but not exceeding the value of the work for the time being remaining unexecuted. In the event of stoppage of work, the period of option under this clause shall be of fourteen days, only provided that, should the above option not be exercised, the contract may be determined by the Employer by notice writing to the contractor.



Signature of Bidder/ or his authorized representative

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APPENDIX TO SECTION - C



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## APPENDIX - I

## LIST OF INDIAN STANDARD CODES

Sr. No.	IS Code No.	Description
<b>CONSTRUCTION PLANNING AND STORAGE OF MATERIALS</b>		
1	4082:	Recommendation on stacking and storage of construction materials at site (first revision)
2	7969:	Safety code for handling and storage of building materials
<b>EARTHWORK</b>		
3	883:	Design of structural timber in building - Code of practice (third revision)
4	1498	Classification and identification of soils for general engineering purposes (first revision) (Amendments 2) (Reaffirmed)
5	2682 : 1984	Chlordane emulsifiable concentrates (second revision) (Amendment 1) (Reaffirmed 1994)
6	3764 : 1992	Excavation work - Code of safety (first revision)
7	4081	Safety code for blasting and related drilling operations
8	6313 (Part 2)	Code of practice for anti-termite measures in buildings : Part 2 Pre constructional chemical treatment measures (Reaffirmed)
<b>FOUNDATIONS</b>		
9	269:	33 grade ordinary Portland cement.
10	432 (Part 1)	Mild steel and medium tensile steel bars and hard-drawn steel wire for concrete reinforcement : Part 1 Mild steel and medium tensile steel bars (third revision)
11	455	Portland slag cement
12	456	Code of practice for plain and reinforced concrete (Reaffirmed 1991)
13	1080 : 1986	Code of practice for design and construction of shallow foundations on soils (other than raft, ring and shell)
14	1489 (Part 1)	Portland pozzolana cement : Part 1 Fly ash based
15	1489 (Part 2)	Portland pozzolana cement : Part 2 Calcined clay based
16	1786	High strength deformed steel bars and wires for concrete reinforcement
17	14593	Guidelines for design and construction of bored cast in-situ piles founded on rocks.
18	9716	Guide for lateral dynamic load test on piles
19	1904	Code of practice for design and construction of foundations in soils : General requirements
20	2062	Steel for general structural purposes
21	2911 (Part 1/Sec. 1)	Code of practice for design and construction of pile foundations: Part 1 Concrete piles. Section 1 Driven cast in-situ concrete piles. (Amendments 2)

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Sr. No.	IS Code No.	Description
22	2911 (Part 1/Sec. 2)	Code of practice for design and construction of pile foundations: Part 1 Concrete piles, Section 2 Bored cast in situ piles.
23	2911 (Part 1/ Sec. 3)	Code of practice for design and construction of pile foundations: Part 1 Concrete piles. Section 3 Driven precast concrete piles
24	2911 (Part 1/Sec. 4)	Code of practice for design and construction of pile foundations: Part 1 Concrete piles. Section 4 Bored precast concrete piles
25	2911 (Part 3)	Code of practice for design and construction of pile foundations : Part 3 Under reamed piles
26	2911 (Part 4)	Code of practice for design and construction of piles foundations : Part 4 Load test on piles (first revision) (Amendment 1)
27	2950 (Part 1)	Code of practice for design and construction of raft foundations : Part 1 Design
28	2974 (Part 1)	Code of practice for design and construction of machine foundations : Part 1 Foundations for reciprocating type machines
29	2974 (Part 2)	Code of practice for design and construction of machine foundations : Part 2 Foundations for impact type machines (hammer foundations)
30	2974 (Part 3)	Design and construction of machine foundations - Code of practice : Part 3 Foundations for rotary type machines (medium and high frequency)
31	2974 (Part 4)	Code of practice for design and construction of machine foundations : Part 4 Foundations for rotary type machines of low frequency)
32	2974 (Part 5)	Code of practice for design and construction of machine foundations : Part 5 Foundation for impact machines other than hammers (forging and stamping press, pig breakers, drop crusher and jolter)
33	3629	Specification for structural timber in building (first revision) (Reaffirmed 1991)
34	4091 : 1979	Code of practice for design and construction of foundations for transmission line towers and poles (first revision) (Reaffirmed 1987)
35	6403	Code of practice for determination of bearing capacity of shallow foundations.
36	6909	Specification for super sulphated cement
37	8009 (Part 1)	Code of practice for calculation of settlement of foundations: Part 1 Shallow foundations subject to symmetrical static vertical loads.
38	8009 (Part 2)	Code of practice for calculation of settlement of foundations: Part 2 Deep foundations subjected to symmetrical static vertical loading.
39	5121	Safety code for piling & other deep foundation
40	4138	Safety code for working in compressed air.
41	9456 : 1980	Code of practice for design and construction of conical and hyperbolic paraboloidal types of shell foundations.
42	19556	Code of practice for design and construction of diaphragm walls.
43	11089	Code of practice for design and construction of ring foundation
44	11233	Code of practice for design and construction of radar antenna, microwave and TV tower foundations (Reaffirmed 1990)
45	12269	53 grade ordinary Portland cement.
46	13094	Guidelines for selection of ground improvement techniques for foundation in weak soils.
47	13301	Guidelines for vibration isolation for machine foundations

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Sr. No.	IS Code No.	Description
48	SP 36 (Part 2) : 1988	Compendium of Indian Standards on soil engineering : Part 2 Field testing
<b>MASONRY</b>		
<b>Part 1 Mortars</b>		
49	269	33 grade ordinary Portland cement
50	383	Coarse and fine aggregates from natural sources for concrete
51	455	Portland slag cement
52	456	Code of practice for plain and reinforced concrete
53	712	Building limes
54	1344	Calcined clay pozzolana
55	1489 (Part 1)	Portland pozzolana cement : Part 1 Fly ash based
56	1489 (Part 2)	Portland pozzolana cement : Part 2 Calcined clay based
57	1635	Code of practice for field slaking of building lime and preparation of putty
58	2116	Stand for masonry mortars
59	2250	Code of practice for preparation and use of masonry mortars
60	2720 (Parts 1 to 41)	Methods of test for soils
61	3812	Fly ash for use as pozzolana and admixture
62	6452	Specification for high alumina cement for structural use
63	6909	Specification for supersulphated cement
64	8041	Rapid hardening Portland cement
65	8043	Hydrophobic Portland cement
66	8112	43 grade ordinary Portland cement
67	12269	53 grade ordinary Portland cement
68	12600	Low heat Portland cement
69	SP 20 (S & T) :	Handbook on masonry design and construction
70	SP 21 (S & T)	Summaries of Indian Standards for building materials
<b>Part 2 Brickwork</b>		
<b>Brick and Block Units</b>		
71	269	33 grade ordinary Portland cement
72	383	Coarse and fine aggregates from natural sources for concrete
73	455	Portland slag cement
74	456	Code of practice for plain and reinforced concrete
75	712	Building limes
76	1077	Common burnt clay building bricks
77	1344	Calcined clay pozzolana
78	1489 (Part 1)	Portland pozzolana cement : Part 1 Fly ash based
79	1489 (Part 2)	Portland pozzolana cement : Part 2 Calcined clay based
80	2180	Heavy duty burnt clays building bricks
81	2185 (Part 1)	Concrete masonry units : Part 1 Hollow and solid concrete blocks
82	2185 (Part 2)	Concrete masonry units: Part Hollow and solid light weight concrete blocks.
83	2185 (Part 3)	Concrete masonry units : Part 3 Autoclaved cellular aerated concrete blocks
84	2222	Burnt clay perforated ;building bricks
85	2645	Integral cement waterproofing compounds
86	2691	Burnt clay facing bricks
87	3068 : 1986	Broken brick (burnt clay) coarse aggregates for use in lime concrete
88	3495	Methods of test for burnt clay building bricks (Parts 1 to 4)

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Sr. No.	IS Code No.	Description
89	3812	Fly ash for use as pozzolana and admixture
90	3952	Burnt clay hollow bricks for walls and partitions
91	4098	Lime-pozzolana mixture
92	4139	Calcium silicate bricks
93	5454	Methods of sampling of clay building bricks
94	6165	Dimensions for special shapes of clay bricks
95	6452	Specification for high alumina cement for structural use
96	4014 Part 1 & 2	Code of practice for steel tubular scaffolding
97	6909	Specification for supersulphated cement
98	8041	Rapid hardening Portland cement
99	8042	White Portland cement
100	8043	Hydrophobic Portland cement
101	8112	43 grade ordinary Portland cement
102	9103	Admixture for concrete
103	12269	53 grade ordinary Portland cement
104	12440	Precast concrete stone masonry blocks
105	12600	Low heat Portland cement
106	SP 20 (S & T)	Handbook on masonry design and construction
107	SP 21 (S & T)	Summaries of Indian Standards for building materials
108	1077	Common burnt clay building bricks
109	2212	Code of practice for brick work
110	3696 (Part 1)	Safety code of scaffolds and ladders : Part 1 Scaffolds
111	4014 (Part 2)	Code of practice for steel tubular scaffolding : Part 2 Safety regulations for scaffolding
112	SP 25 (S & T)	Handbook on caused and prevention of cracks in building
PLAIN AND REINFORCED CONCRETE		
113	269	33 grade ordinary Portland cement
114	383	Coarse and fine aggregates from natural resources for concrete
115	432 (Part 1 & 2)	Mild steel and medium tensile steel bars and hard drawn steel wire for concrete reinforcement: Part 1 Mild steel and medium tensile steel bars. Part 2 Hard drawn steel wire
116	455	Portland slag cement
117	456	Code of practice for plain and reinforced concrete
118	516	Method of test for strength of concrete
119	712	Building limes
120	875 (Part 1)	Code of practice for design loads (other than earthquake) for buildings and structures : Part 1 Dead loads - Unit weights of building material and stored materials
121	875 (Part 2)	Code of practice for design loads (other than earthquake) for buildings and structures : Part 2 Imposed loads
122	875 (Part 3)	Code of practice for design loads (other than earthquake) for buildings and structures : Part 3 Wind loads
123	875 (Part 4)	Code of practice for design loads (other than earthquake) for buildings and structures : Part 4 Snow loads
124	875 (Part 5)	Code of practice for design loads (other than earthquake) for buildings and structures : Part 5 Special loads and load combinations
125	650	Standard sand for testing of cement
126	3085	Method of test for permeability of cement mortar & concrete
127	9284	Method of test for abrasion resistance of concrete

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