

| ERW Steel Tubes for Water & Sewage Purpose Conforming to IS:3589/2001 |         |                |                |         |
|-----------------------------------------------------------------------|---------|----------------|----------------|---------|
| NB                                                                    | OD (MM) | Wall Thickness | Nominal Weight |         |
|                                                                       |         |                | Plain End      |         |
|                                                                       |         | MM             | KG/M           | Mtr/Ton |
| 150 mm                                                                | 168.3   | 4.00           | 16.21          | 62      |
|                                                                       |         | 4.65           | 18.77          | 53      |
|                                                                       |         | 4.85           | 19.55          | 51      |
|                                                                       |         | 5.00           | 20.14          | 50      |
|                                                                       |         | 5.40           | 21.69          | 46      |
|                                                                       |         | 6.00           | 24.02          | 42      |
|                                                                       |         | 6.35           | 25.36          | 39      |
|                                                                       |         | 7.00           | 27.85          | 36      |
| 175 mm                                                                | 193.7   | 4.00           | 18.71          | 53      |
|                                                                       |         | 4.30           | 20.08          | 50      |
|                                                                       |         | 4.65           | 21.68          | 46      |
|                                                                       |         | 4.85           | 22.59          | 44      |
|                                                                       |         | 5.00           | 23.27          | 43      |
|                                                                       |         | 5.40           | 25.08          | 40      |
|                                                                       |         | 6.00           | 27.77          | 36      |
|                                                                       |         | 6.35           | 29.34          | 34      |
| 200 mm                                                                | 219.1   | 7.00           | 32.23          | 31      |
|                                                                       |         | 8.00           | 36.64          | 27      |
|                                                                       |         | 4.00           | 21.22          | 47      |
|                                                                       |         | 4.65           | 24.59          | 41      |
|                                                                       |         | 4.85           | 25.63          | 39      |
|                                                                       |         | 5.00           | 26.40          | 38      |
|                                                                       |         | 5.40           | 28.46          | 35      |
|                                                                       |         | 6.00           | 31.53          | 32      |
| 250 mm                                                                | 273.1   | 6.35           | 33.32          | 30      |
|                                                                       |         | 7.00           | 36.61          | 27      |
|                                                                       |         | 8.00           | 41.65          | 24      |
|                                                                       |         | 9.50           | 49.11          | 20      |
|                                                                       |         | 4.00           | 26.55          | 38      |
|                                                                       |         | 4.65           | 30.78          | 32      |
|                                                                       |         | 4.85           | 32.08          | 31      |
|                                                                       |         | 5.00           | 33.06          | 30      |
| 300 mm                                                                | 323.9   | 5.40           | 35.65          | 28      |
|                                                                       |         | 6.00           | 39.52          | 25      |
|                                                                       |         | 6.35           | 41.77          | 24      |
|                                                                       |         | 7.00           | 45.94          | 22      |
|                                                                       |         | 8.00           | 52.30          | 19      |
|                                                                       |         | 9.50           | 61.76          | 16      |
|                                                                       |         | 4.85           | 38.16          | 26      |
|                                                                       |         | 5.00           | 39.32          | 25      |
|                                                                       |         | 5.40           | 42.42          | 24      |
|                                                                       |         | 6.00           | 47.04          | 21      |
|                                                                       |         | 6.35           | 49.73          | 20      |
|                                                                       |         | 7.00           | 54.71          | 18      |
|                                                                       |         | 8.00           | 62.32          | 16      |
|                                                                       |         | 9.50           | 73.66          | 14      |

|        |       |      |        |    |
|--------|-------|------|--------|----|
| 350 mm | 355.6 | 4.85 | 41.95  | 24 |
|        |       | 5.00 | 43.23  | 23 |
|        |       | 5.40 | 46.64  | 21 |
|        |       | 6.00 | 51.73  | 19 |
|        |       | 6.35 | 54.69  | 18 |
|        |       | 7.00 | 60.18  | 17 |
|        |       | 8.00 | 68.58  | 15 |
|        |       | 9.50 | 81.09  | 12 |
| 400 mm | 406.4 | 5.00 | 49.50  | 20 |
|        |       | 5.40 | 53.40  | 19 |
|        |       | 6.00 | 59.25  | 17 |
|        |       | 6.35 | 62.65  | 16 |
|        |       | 7.00 | 68.95  | 15 |
|        |       | 8.00 | 78.60  | 13 |
|        |       | 9.50 | 92.99  | 11 |
| 450 mm | 457.0 | 5.00 | 55.73  | 18 |
|        |       | 5.40 | 60.14  | 17 |
|        |       | 6.00 | 66.73  | 15 |
|        |       | 6.35 | 70.57  | 14 |
|        |       | 7.00 | 77.68  | 13 |
|        |       | 8.00 | 88.58  | 11 |
|        |       | 9.50 | 104.84 | 10 |
| 500 mm | 508.0 | 5.00 | 62.02  | 16 |
|        |       | 5.40 | 66.93  | 15 |
|        |       | 6.00 | 74.28  | 13 |
|        |       | 6.35 | 78.56  | 13 |
|        |       | 7.00 | 86.49  | 12 |
|        |       | 8.00 | 98.65  | 10 |
|        |       | 9.50 | 116.79 | 9  |

| Tolerance                         |                                                                                   |
|-----------------------------------|-----------------------------------------------------------------------------------|
| A. Outside Diameter of Pipe       | + - 0.75%                                                                         |
| B. Ovality                        | Max 1%                                                                            |
| C. Thickness                      | + - 10%                                                                           |
| D. Length of Pipe                 | Unless otherwise specified, length are in Single Random Length of 4 - 7 Mtr Long. |
| E. Mass Per Truck of Min 10 M.Ton | + - 7.5%                                                                          |

| Physical Properties |                            |                        |                    |
|---------------------|----------------------------|------------------------|--------------------|
| Grade               | Tensile Strength (Min) Mpa | Yield Stress (Min) Mpa | % Elongation (Min) |
| Fe 330              | 330                        | 195                    | 20                 |
| Fe 410              | 410                        | 235                    | 18                 |